

18/45492

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5819292

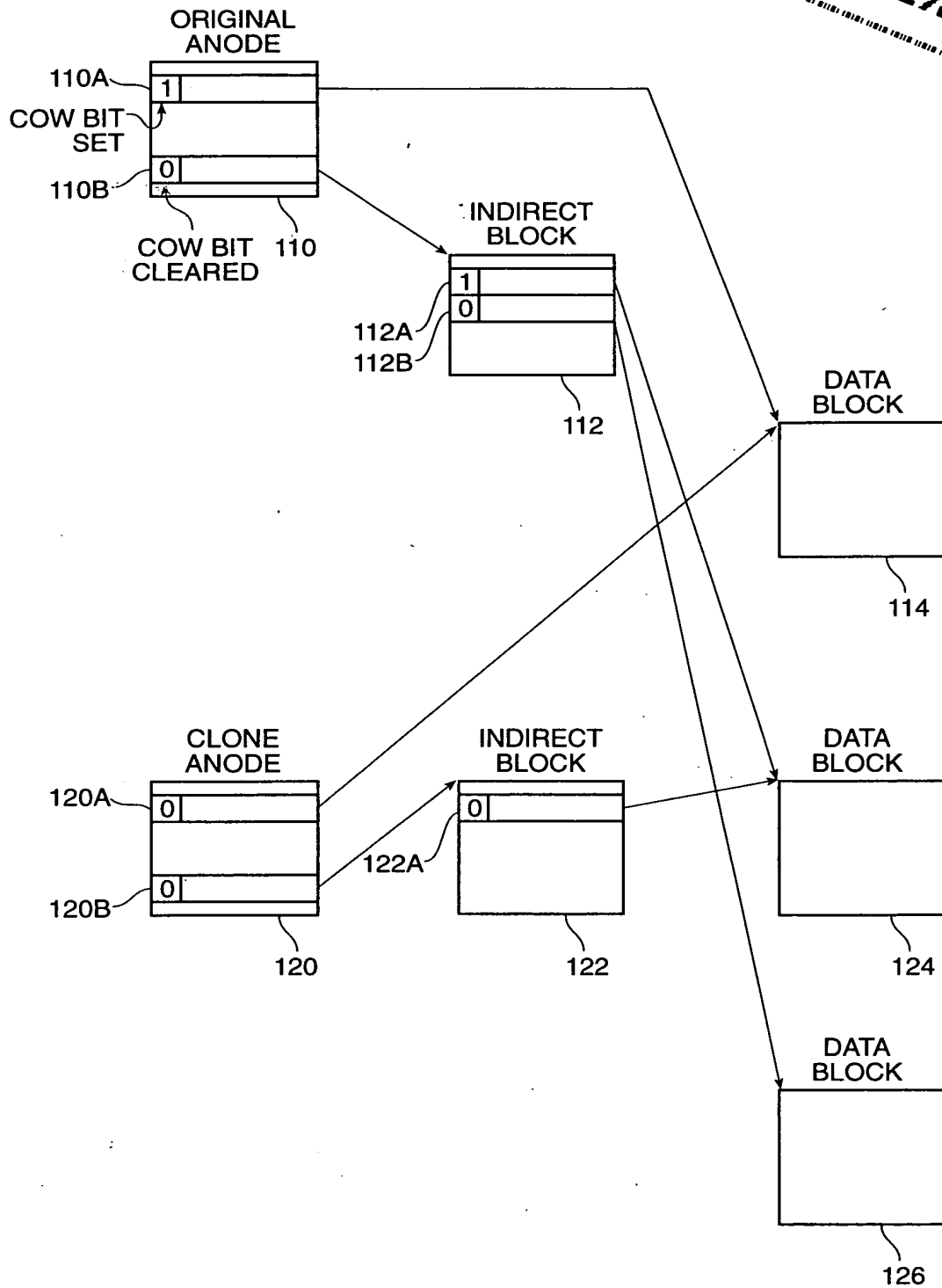


FIG. 1  
PRIOR ART

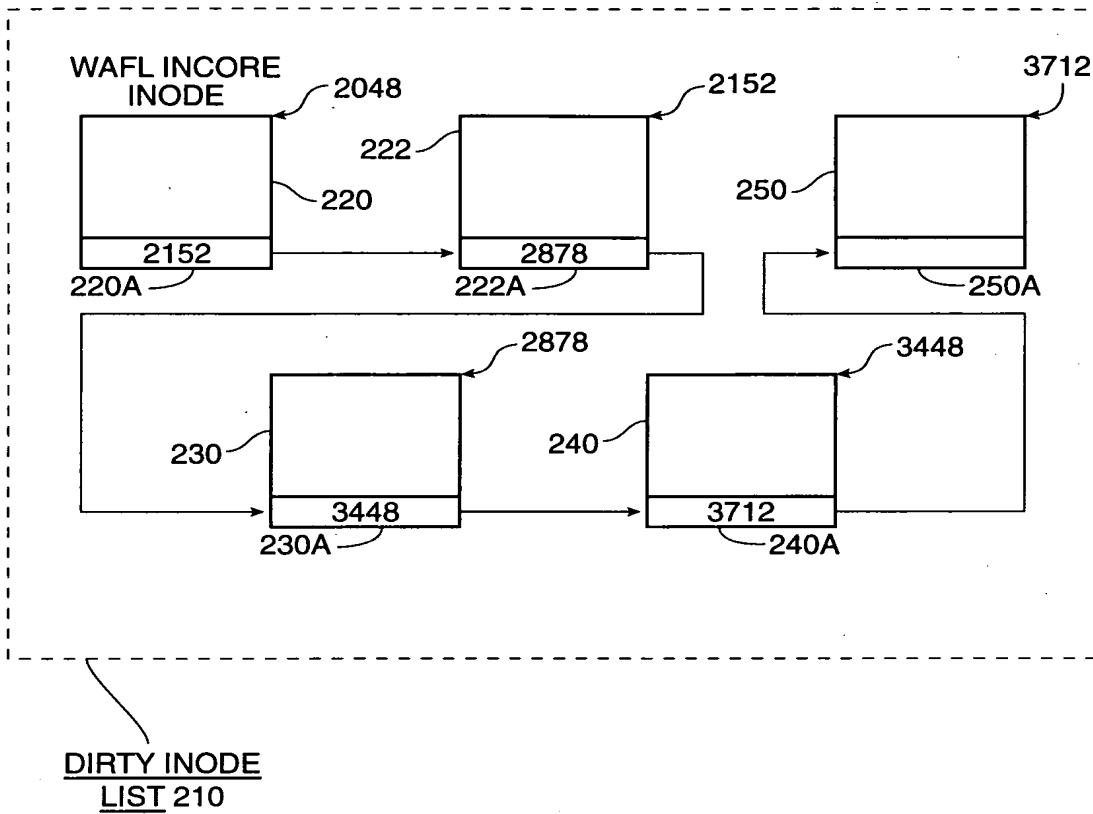


FIG. 2

ON-DISK INODE

16 BLOCK  
NUMBERS HAVING  
SAME LEVEL OF  
INDIRECTION 310B

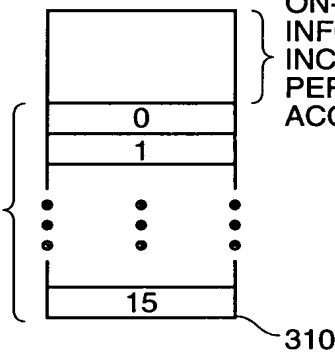


FIG. 3

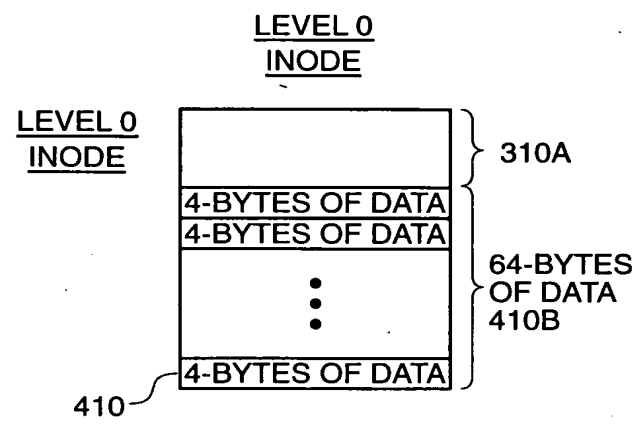


FIG. 4A

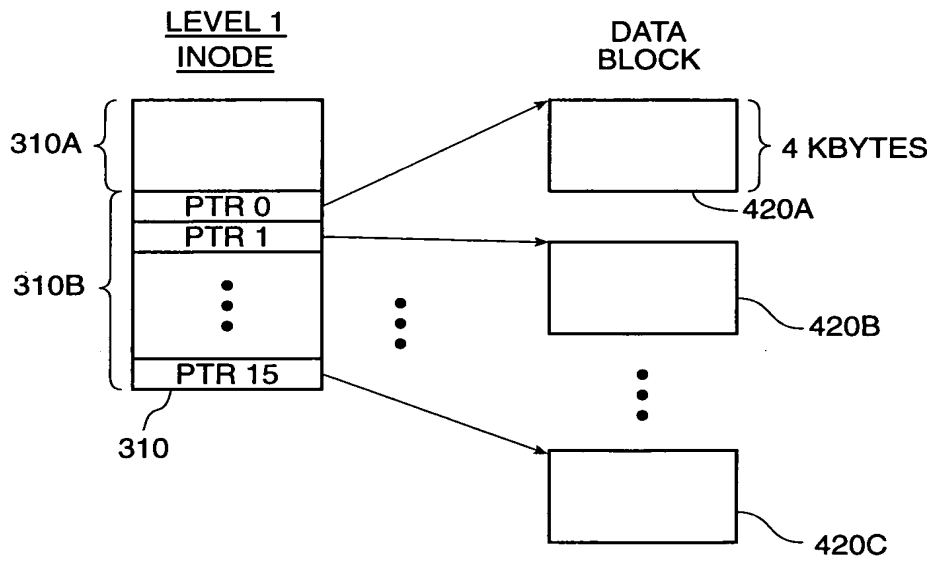


FIG. 4B

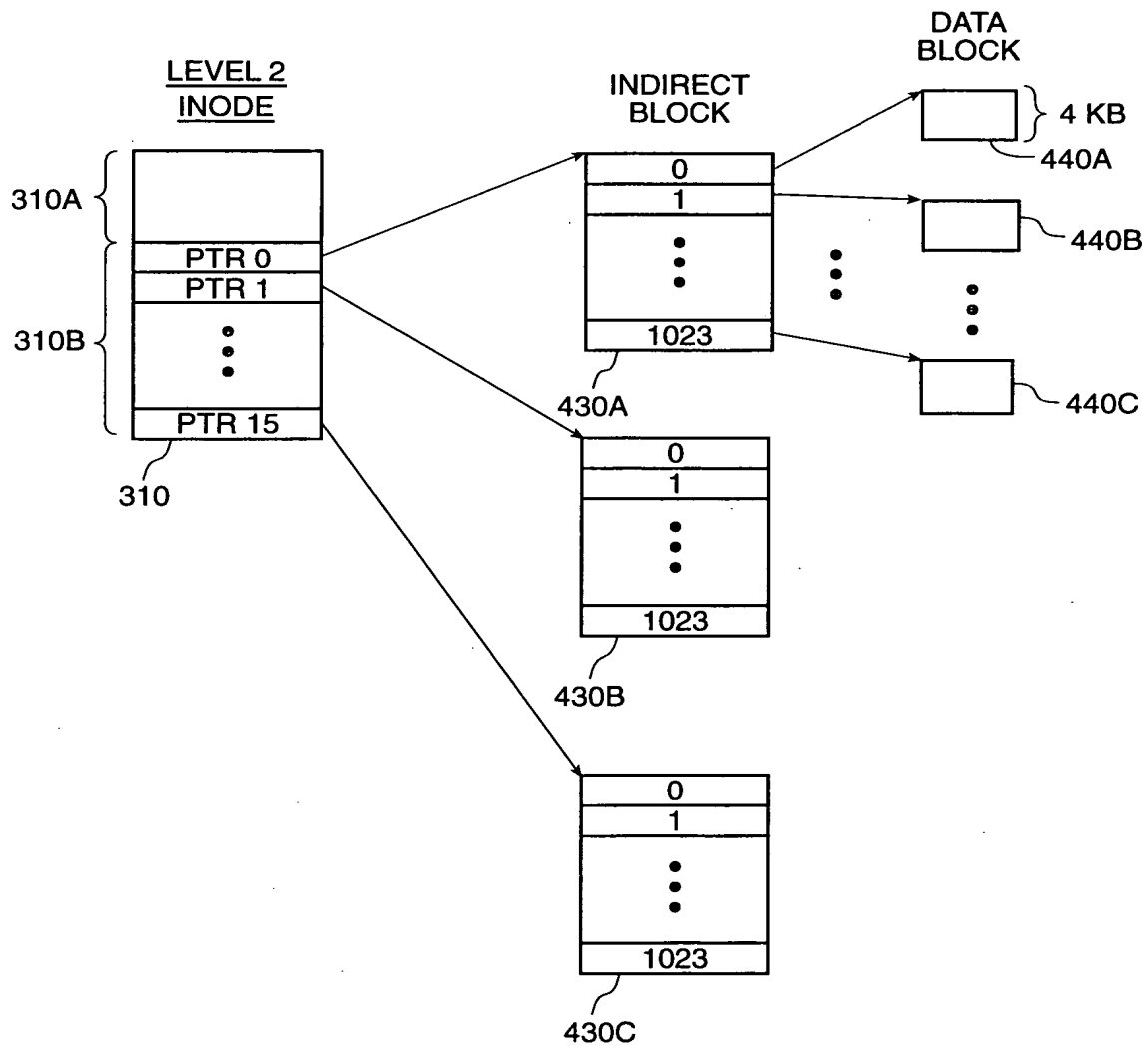


FIG. 4C

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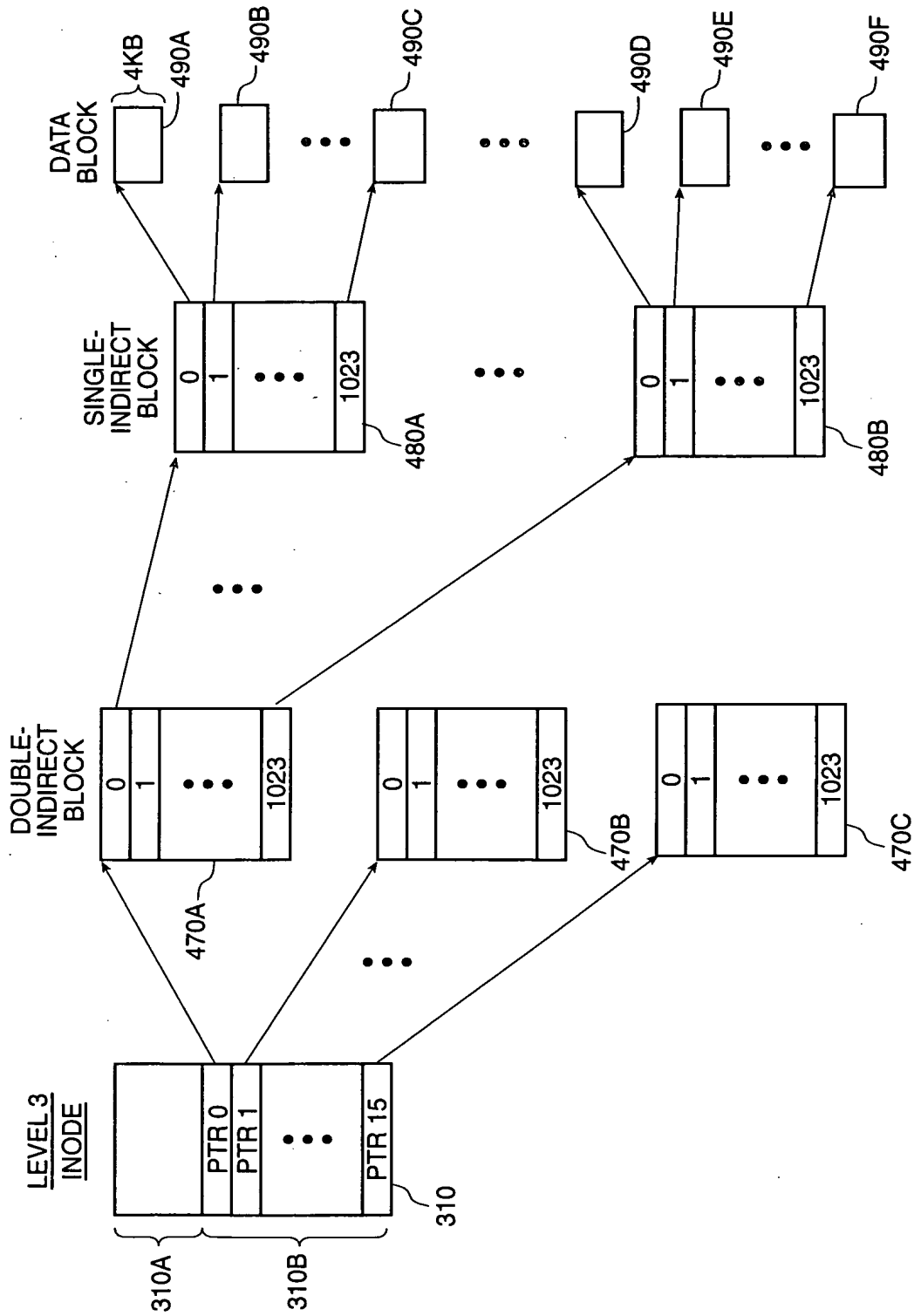


FIG. 4D

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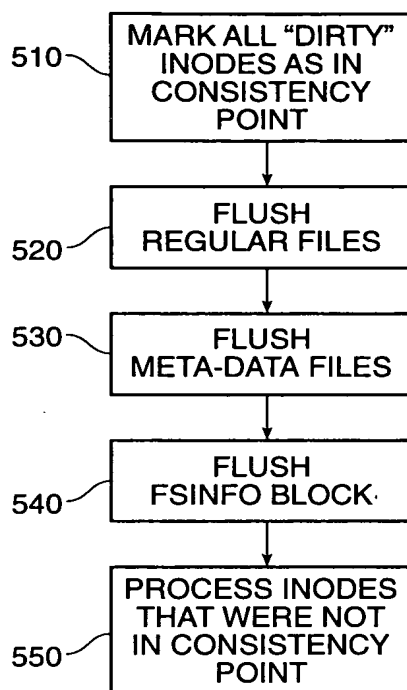


FIG. 5

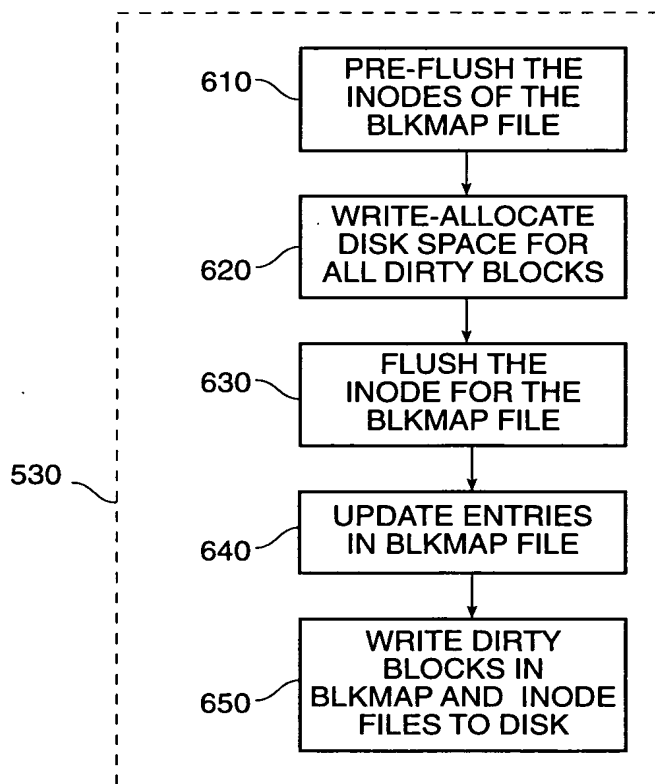


FIG. 6

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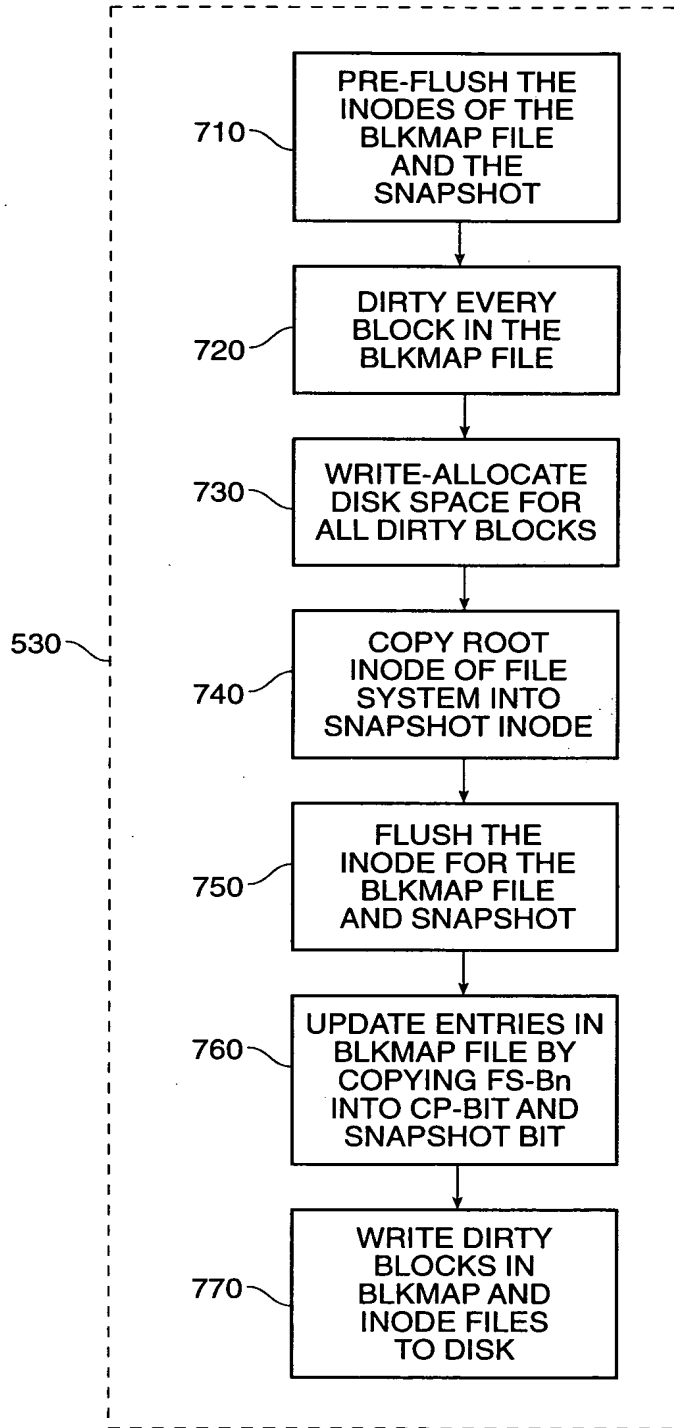


FIG. 7

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

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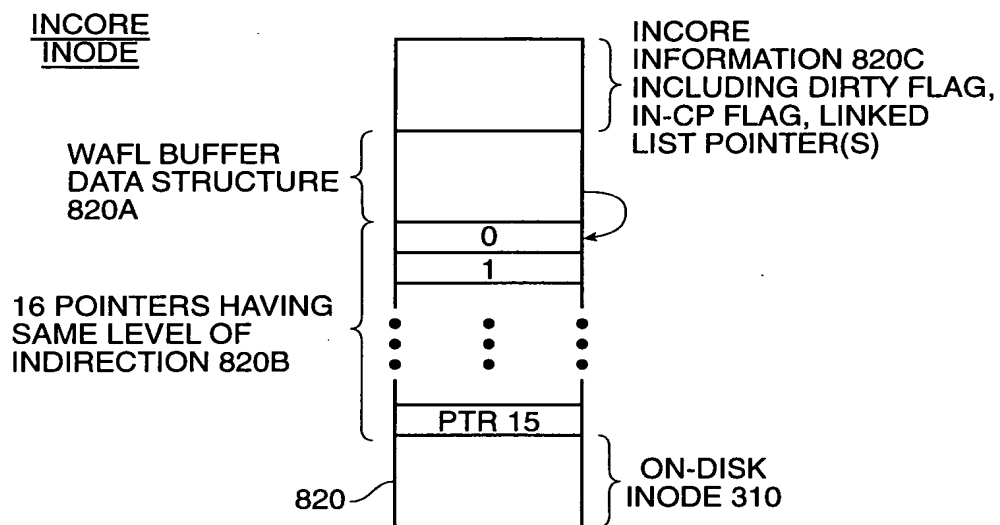


FIG.8



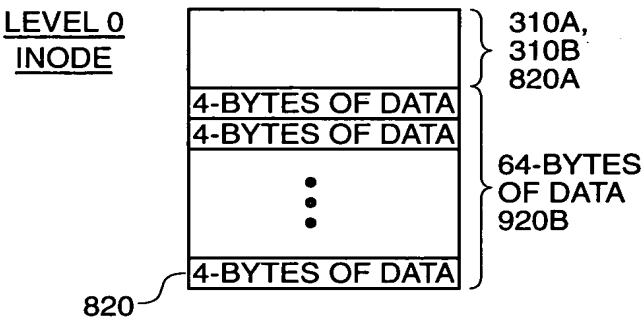


FIG. 9A

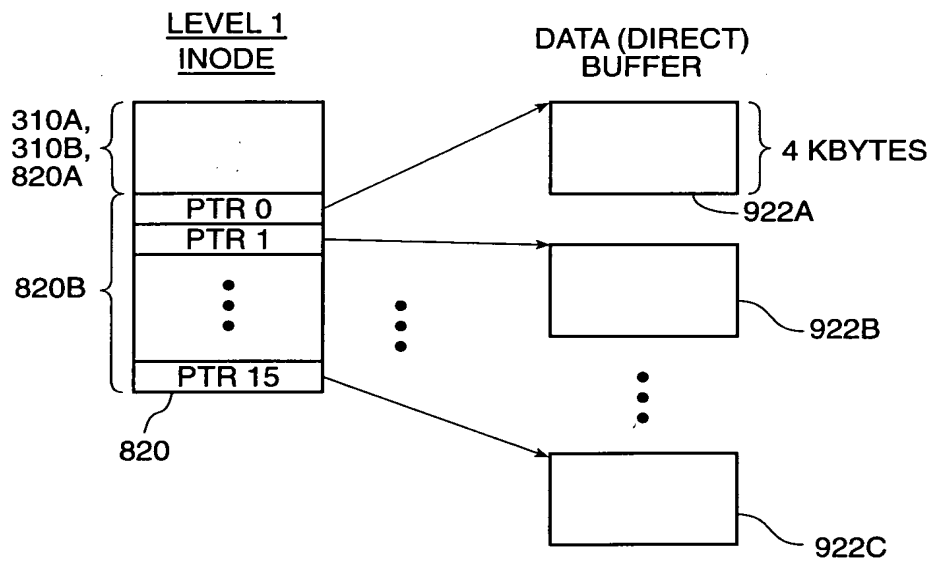


FIG. 9B

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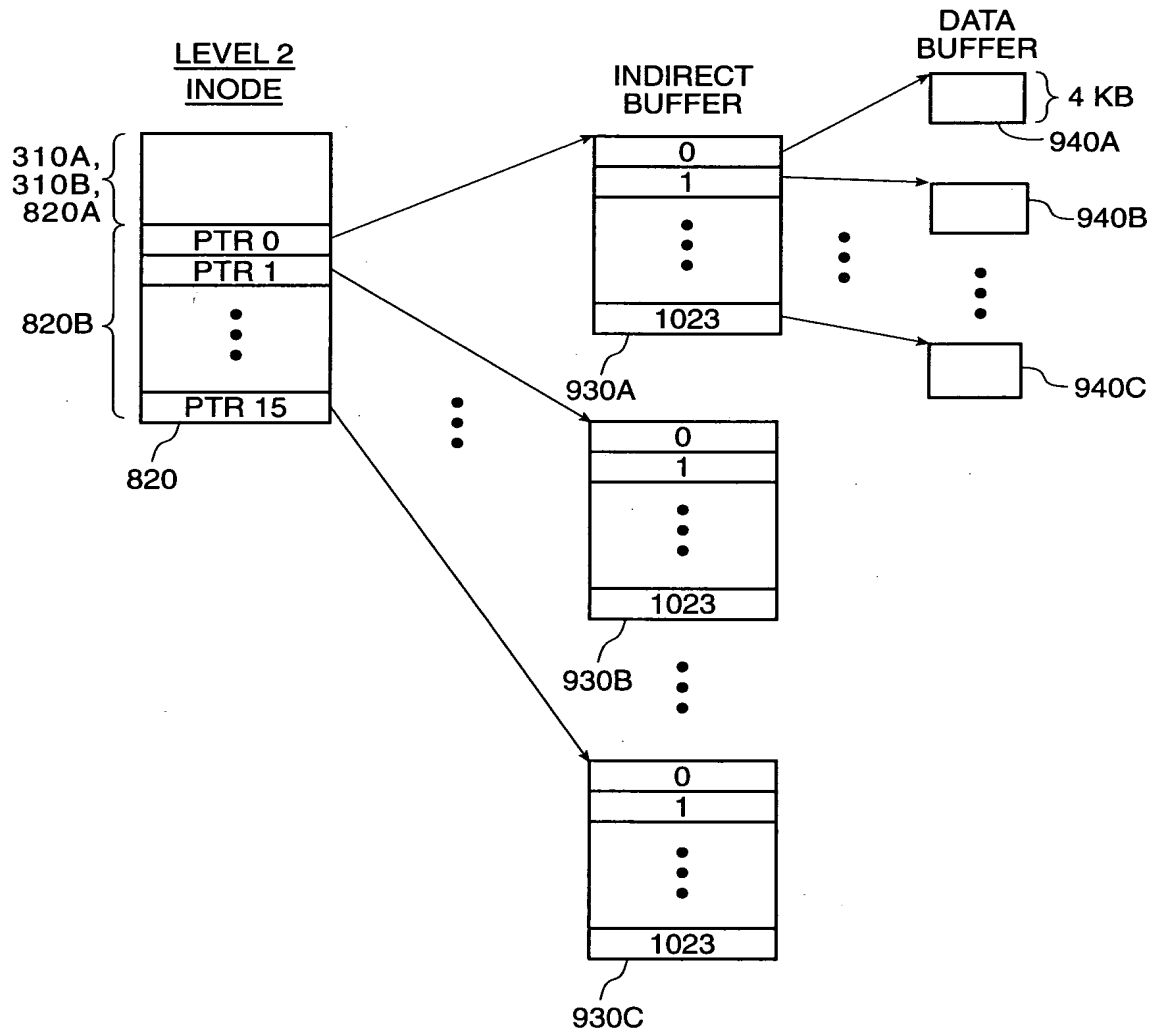


FIG. 9C

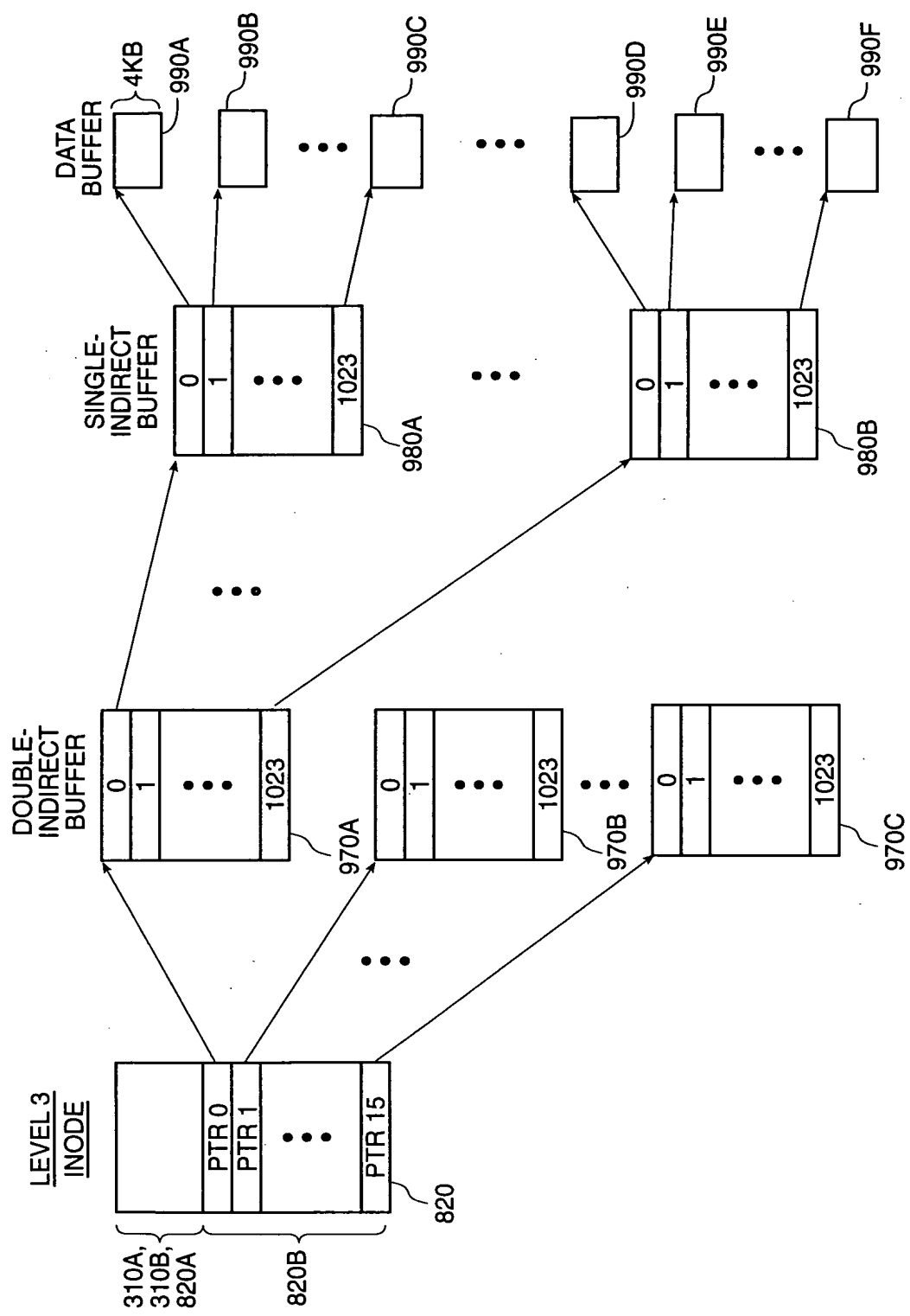


FIG. 9D

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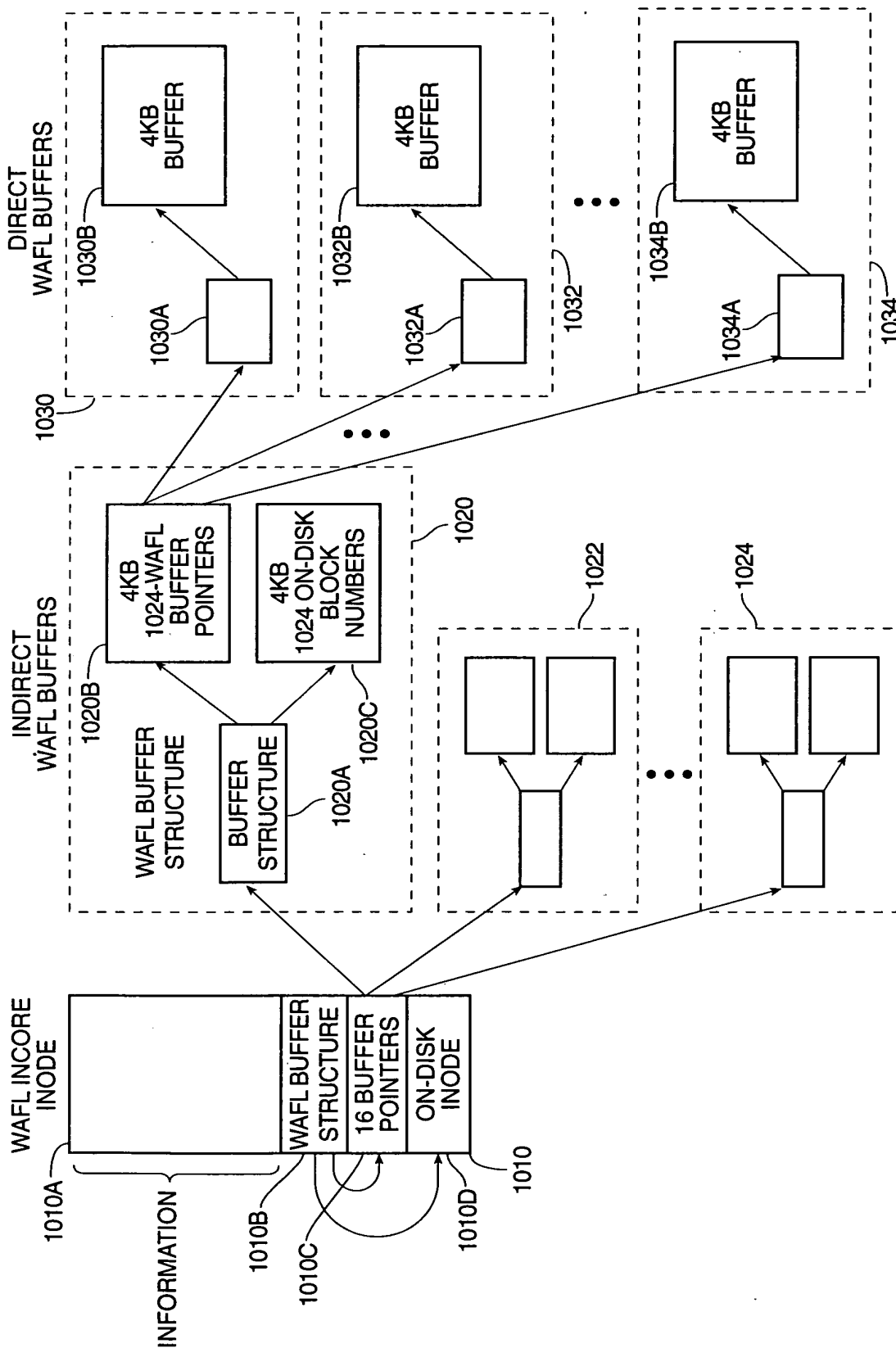


FIG. 10

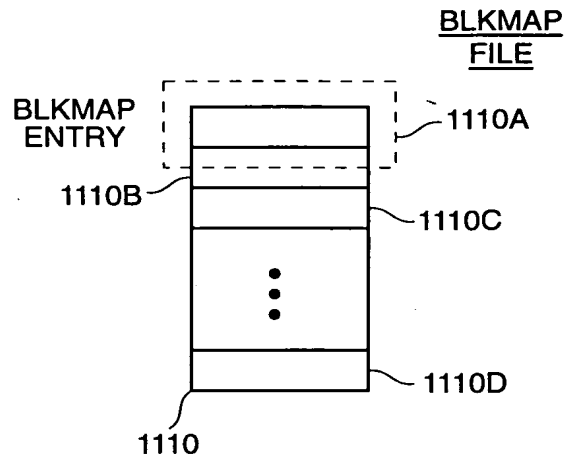


FIG. 11A

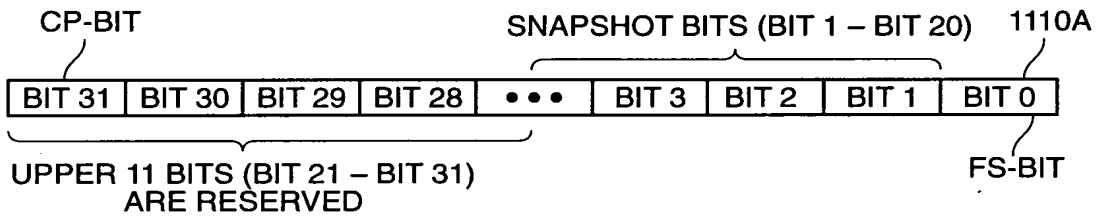


FIG. 11B

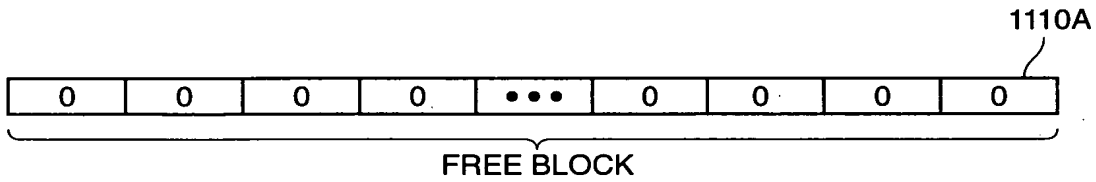


FIG. 11C

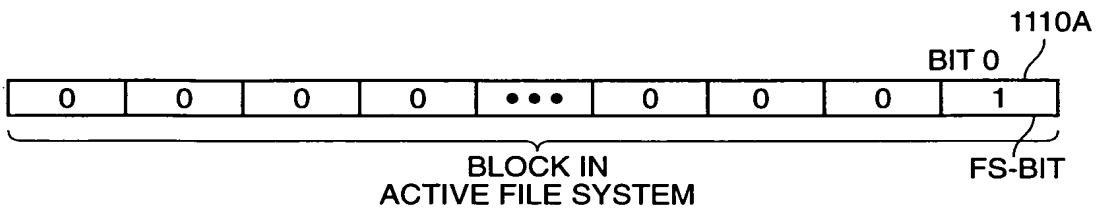


FIG. 11D

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INODE  
FILE

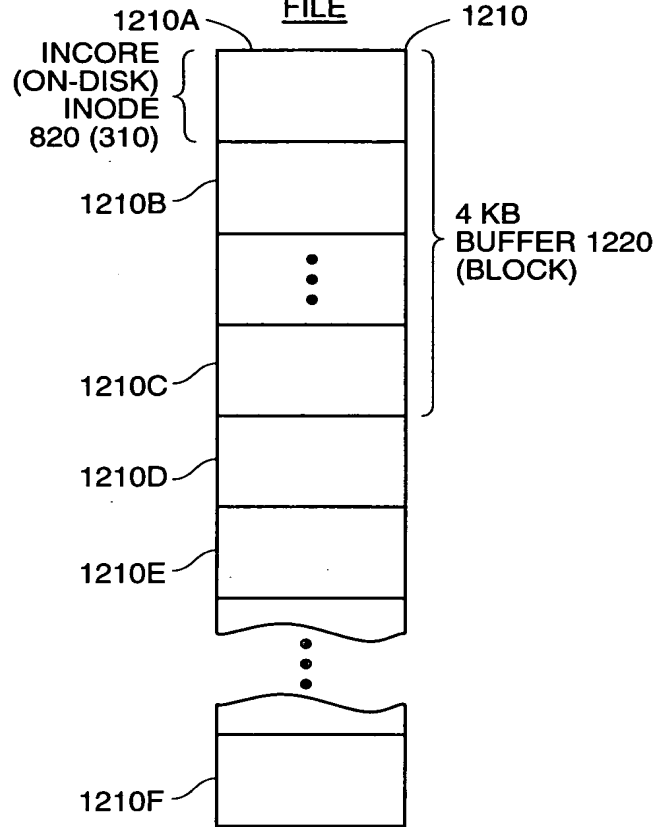


FIG. 12

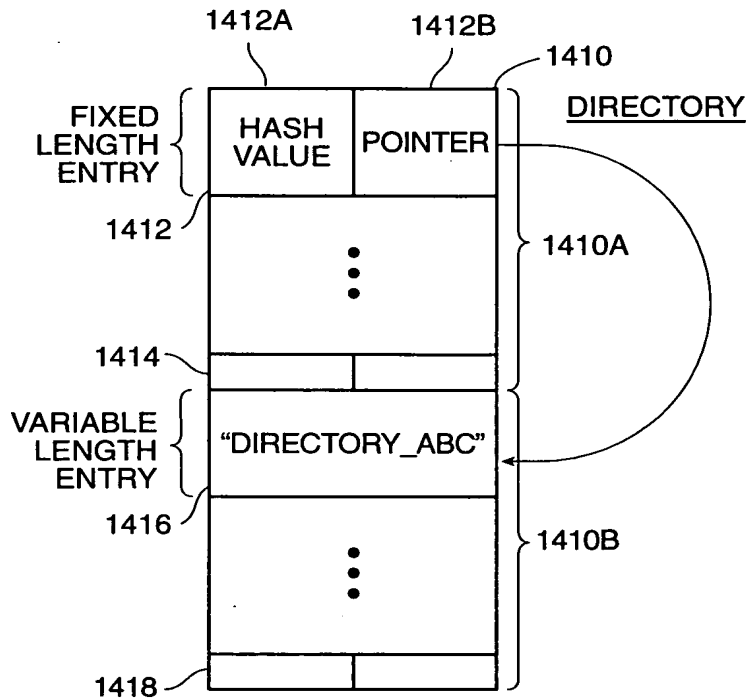


FIG. 14

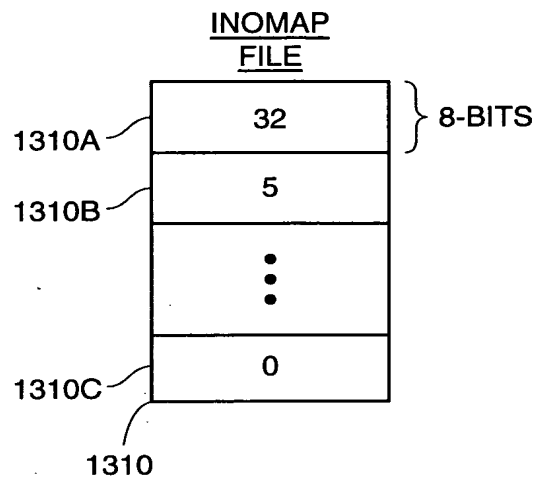


FIG. 13A

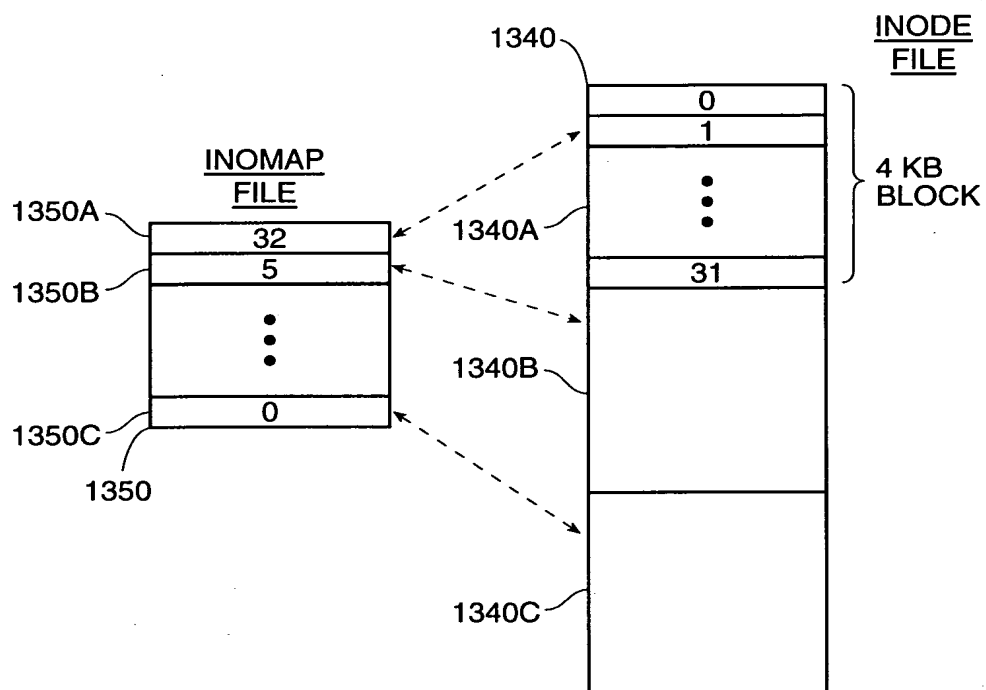


FIG. 13B

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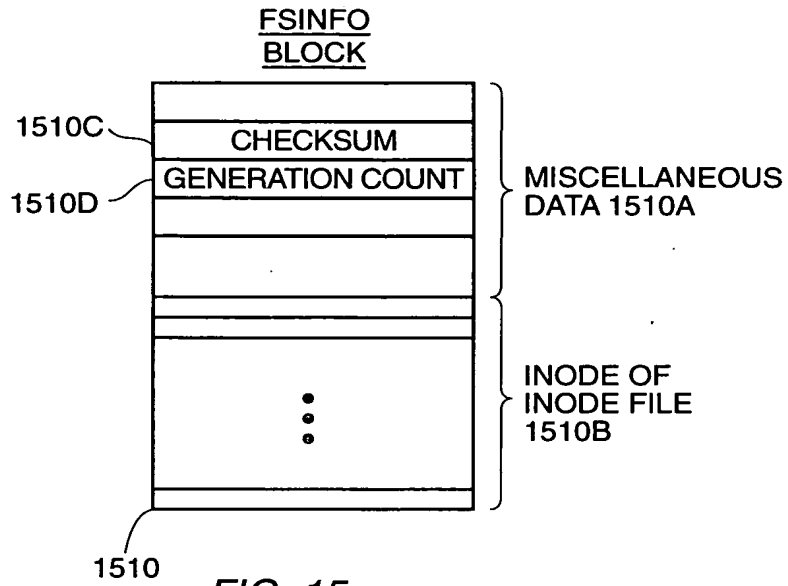


FIG. 15

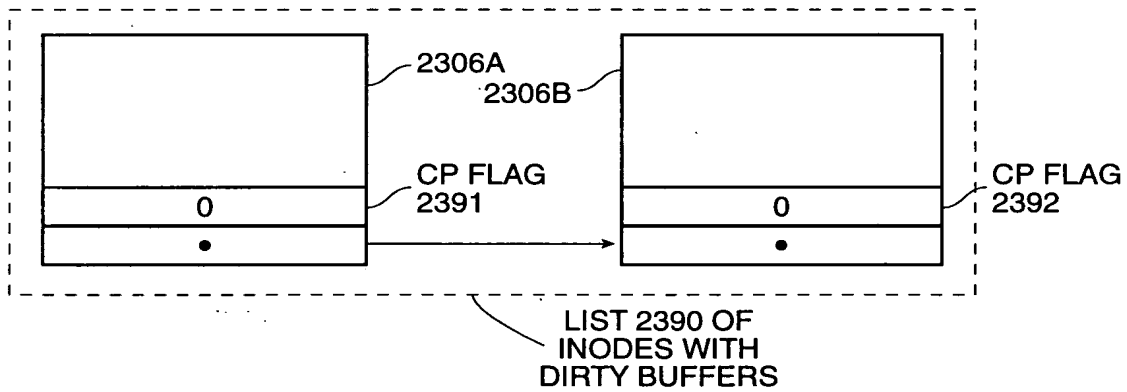


FIG. 17A

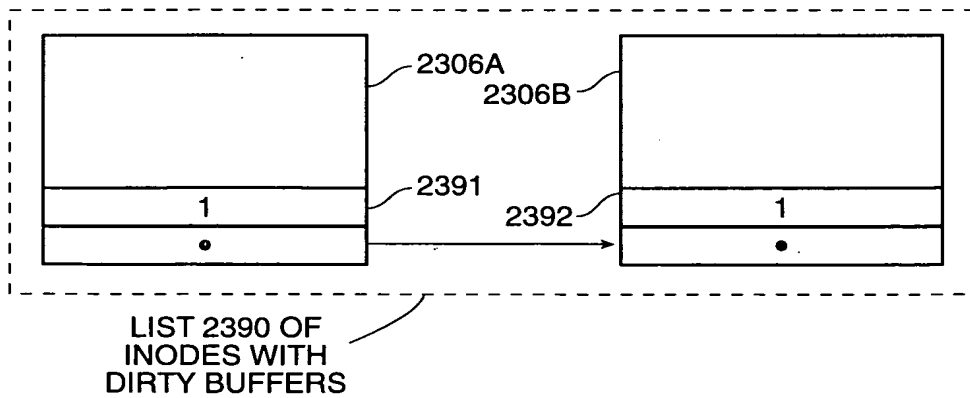


FIG. 17I



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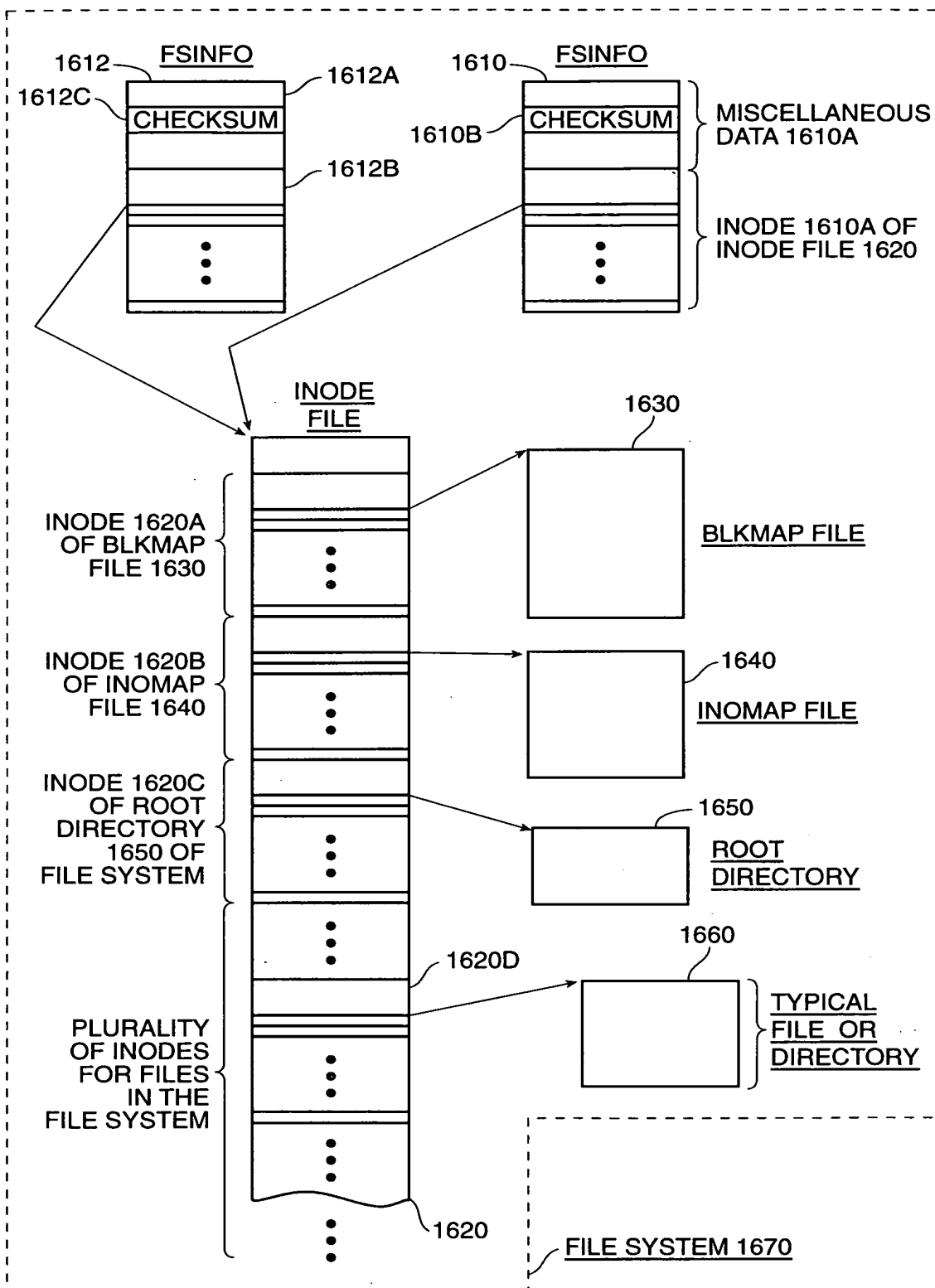


FIG. 16

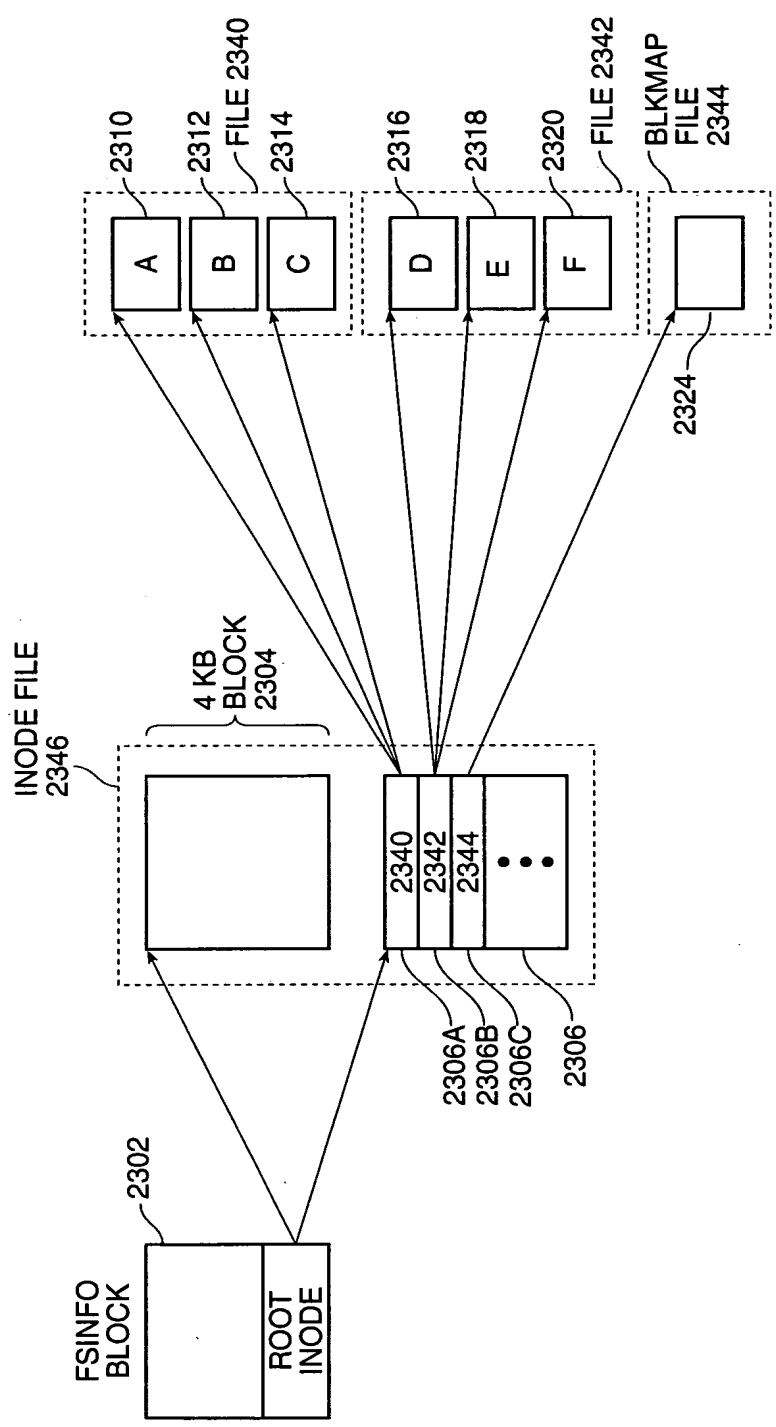


FIG. 17B

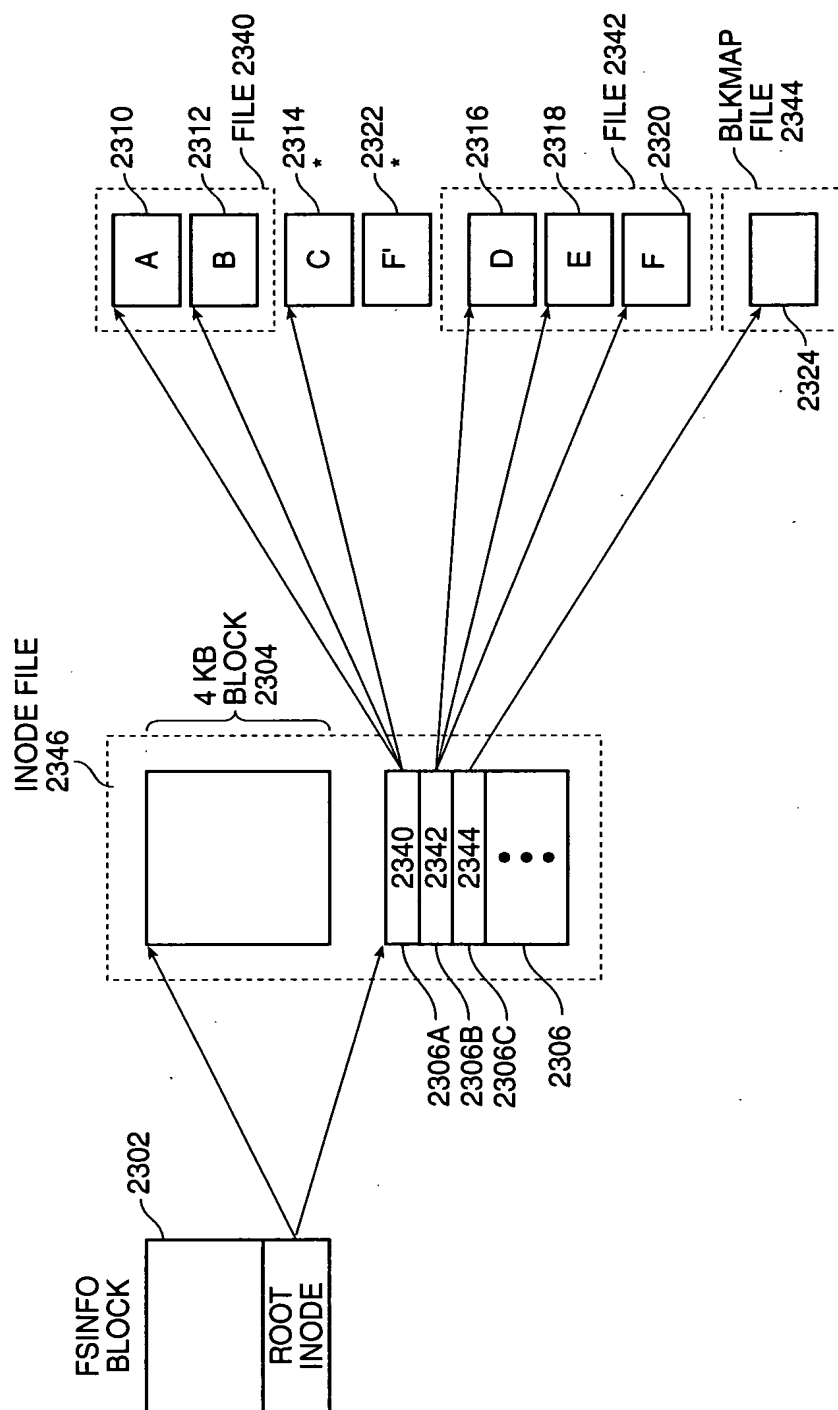


FIG. 17C

|      | BIT 31<br>(CP-BIT) |     | BIT 1 | BIT 0<br>(FS-BIT) |       |
|------|--------------------|-----|-------|-------------------|-------|
| 2304 | 1                  | ... | 1     | 1                 | 2324A |
| 2306 | 1                  | ... | 1     | 1                 | 2324B |
| 2308 | 0                  | ... | 0     | 0                 | 2324C |
| 2310 | 1                  | ... | 1     | 1                 | 2324D |
| 2312 | 1                  | ... | 1     | 1                 | 2324E |
| 2314 | 1                  | ... | 1     | 0                 | 2324F |
| 2316 | 1                  | ... | 1     | 1                 | 2324G |
| 2318 | 1                  | ... | 1     | 1                 | 2324H |
| 2320 | 1                  | ... | 1     | 1                 | 2324I |
| 2322 | 0                  | ... | 0     | 0                 | 2324J |
| 2324 | 1                  | ... | 1     | 1                 | 2324K |
| 2326 | 0                  | ... | 0     | 0                 | 2324L |
| 2328 | 0                  | ... | 0     | 0                 | 2324M |
|      |                    | ⋮   |       |                   |       |

4 KB  
BLOCK  
2324

FIG. 17D

| BLOCK # | BIT 31<br>(CP-BIT) |     | BIT 1 | BIT 0<br>(FS-BIT) |       |
|---------|--------------------|-----|-------|-------------------|-------|
| 2304    | 1                  | ... | 1     | 1                 | 2326A |
| 2306    | 0                  | ... | 1     | 0                 | 2326B |
| 2308    | 1                  | ... | 0     | 1                 | 2326C |
| 2310    | 1                  | ... | 1     | 1                 | 2326D |
| 2312    | 1                  | ... | 1     | 1                 | 2326E |
| 2314    | 0                  | ... | 1     | 0                 | 2326F |
| 2316    | 1                  | ... | 1     | 1                 | 2326G |
| 2318    | 1                  | ... | 1     | 1                 | 2326H |
| 2320    | 0                  | ... | 1     | 0                 | 2326I |
| 2322    | 1                  | ... | 0     | 1                 | 2326J |
| 2324    | 0                  | ... | 1     | 0                 | 2326K |
| 2326    | 1                  | ... | 0     | 1                 | 2326L |
| 2328    |                    | ... |       |                   |       |
|         |                    | ⋮   |       |                   |       |

4 KB  
BLOCK  
2326

FIG. 17J

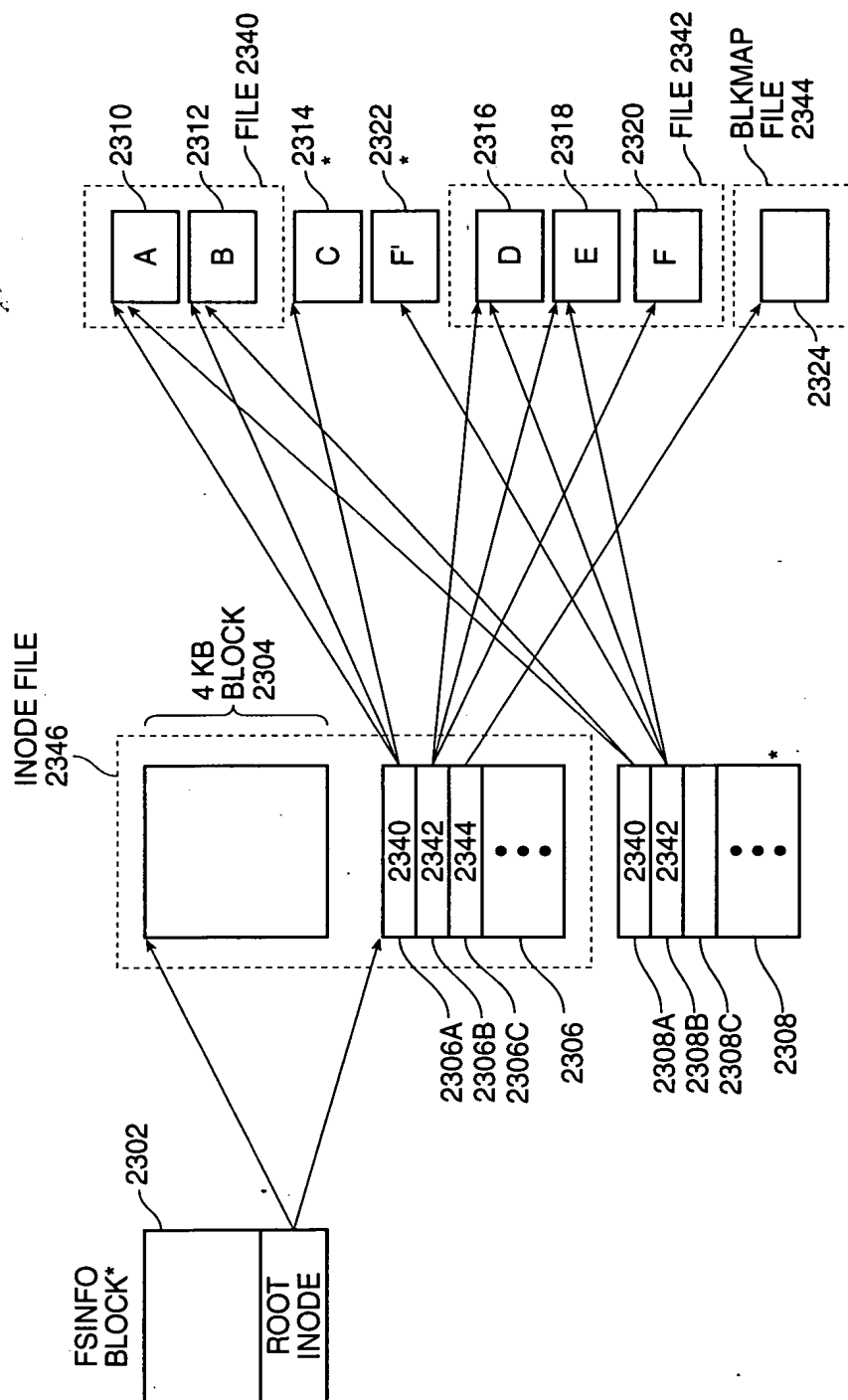


FIG. 17E

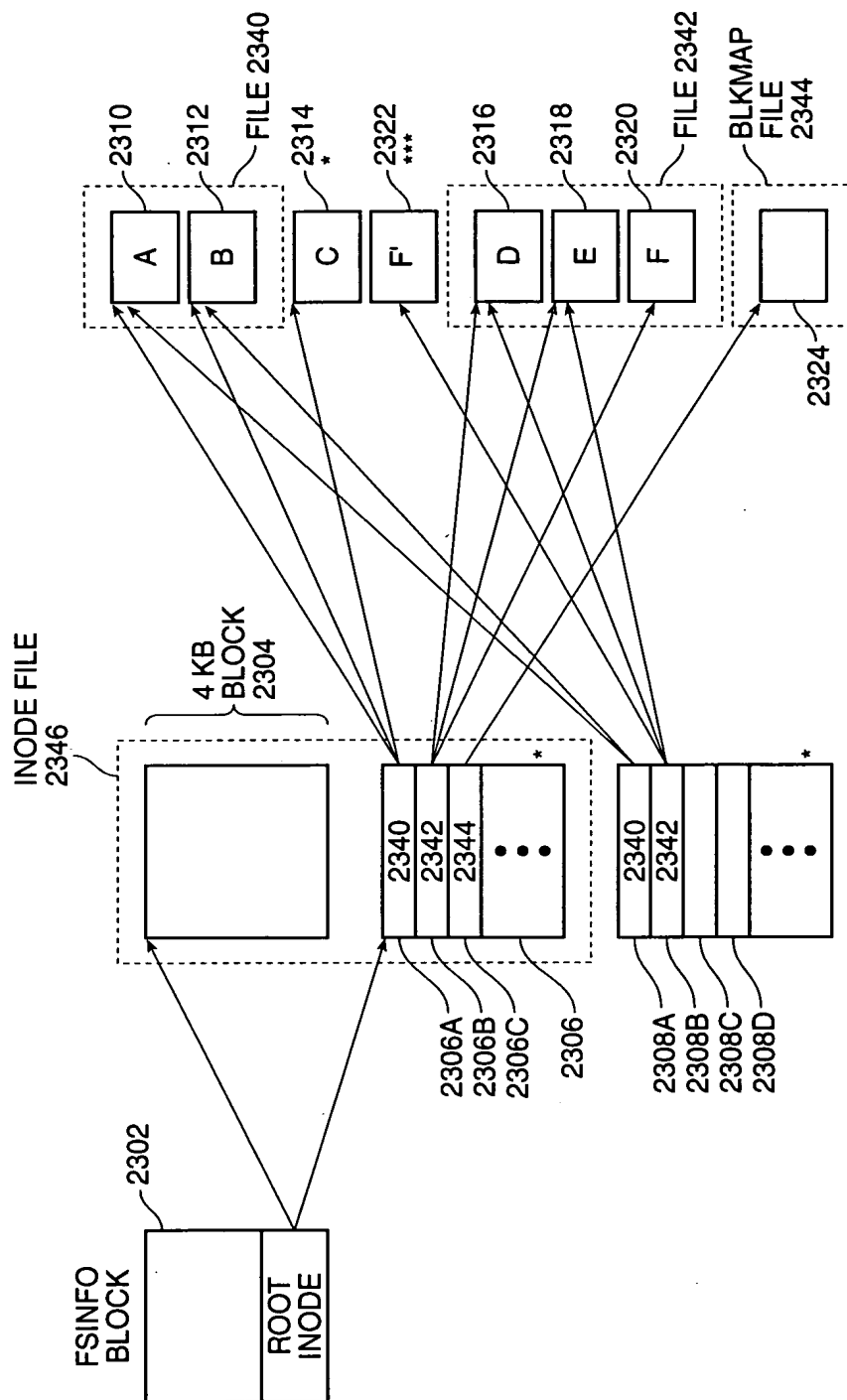
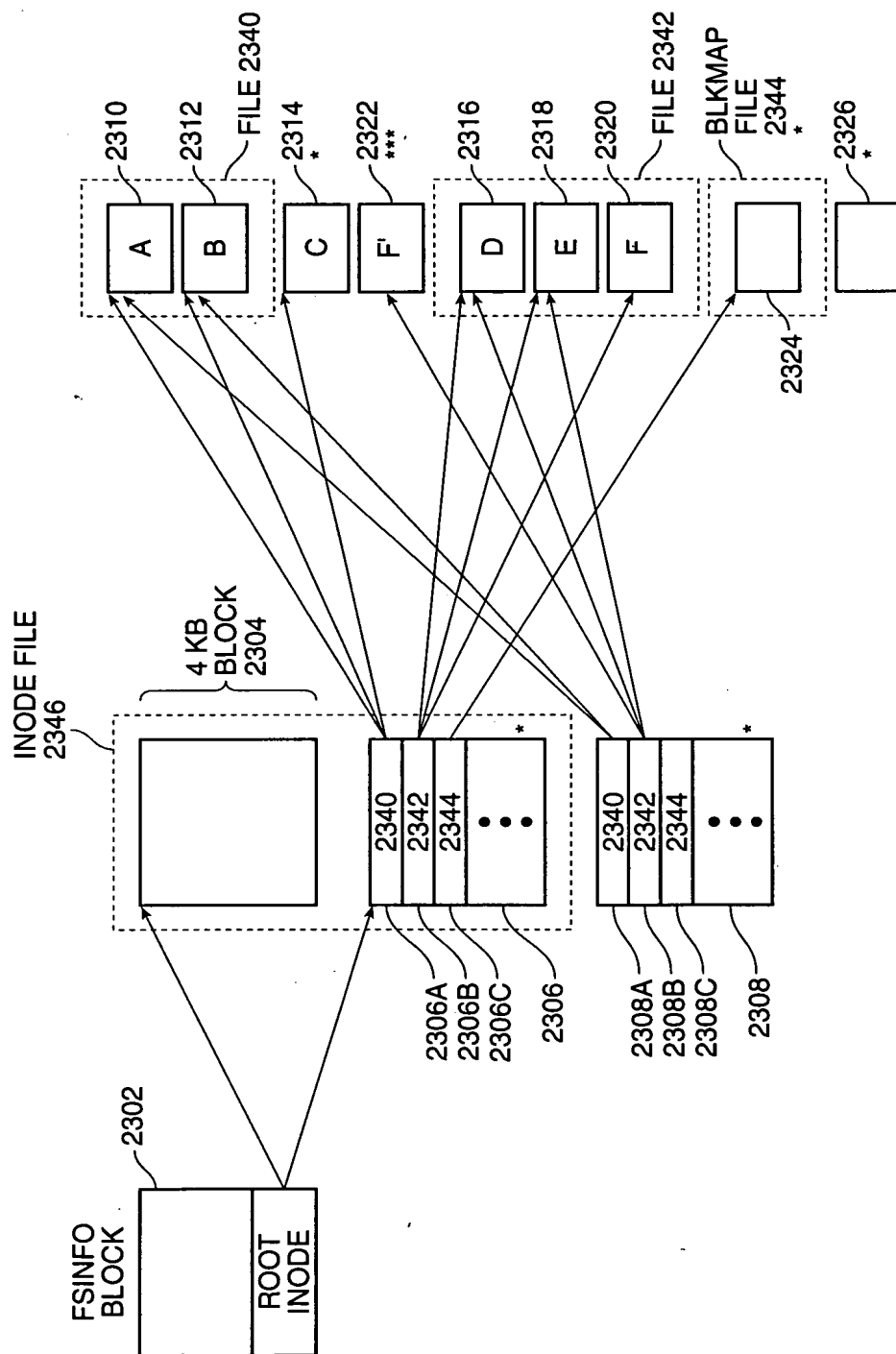
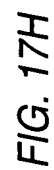


FIG. 17F







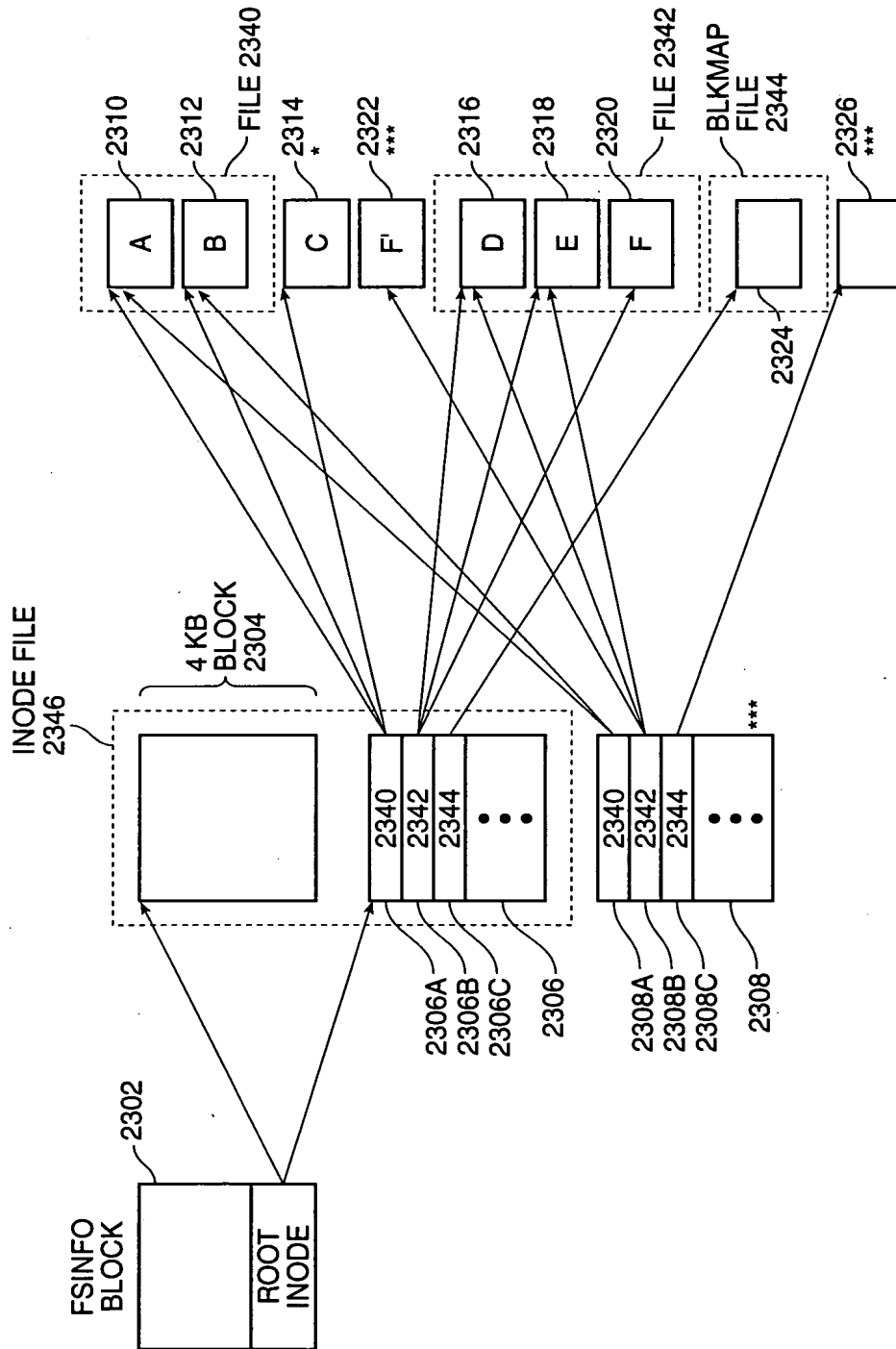


FIG. 17K

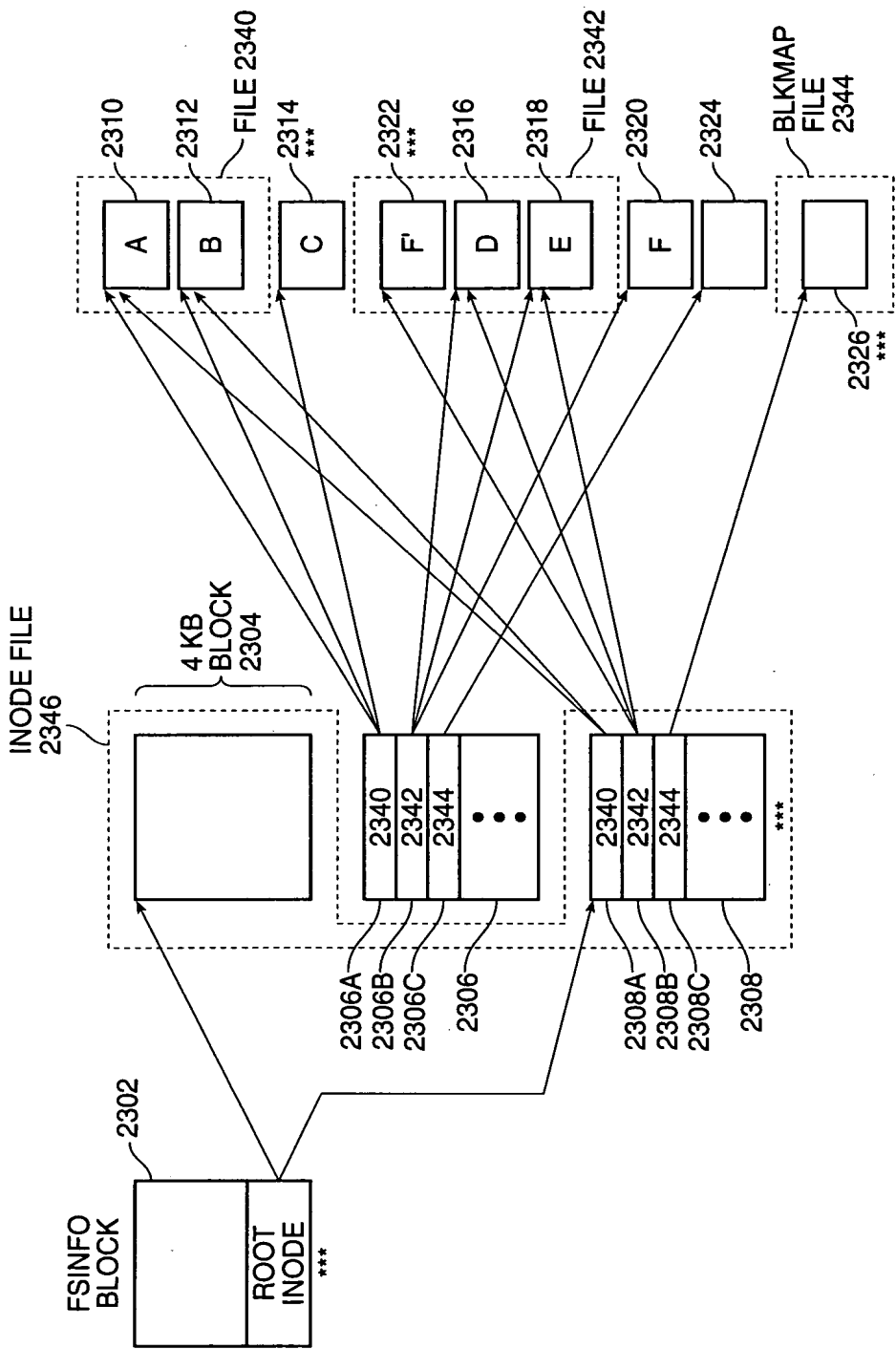


FIG. 17L

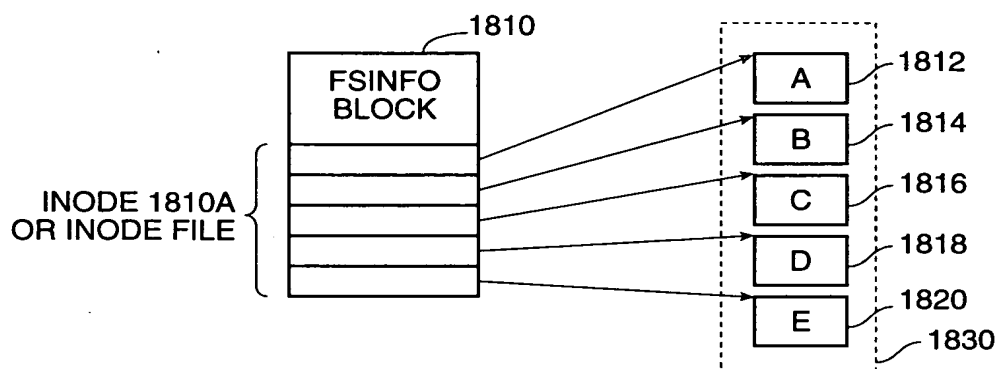


FIG. 18A

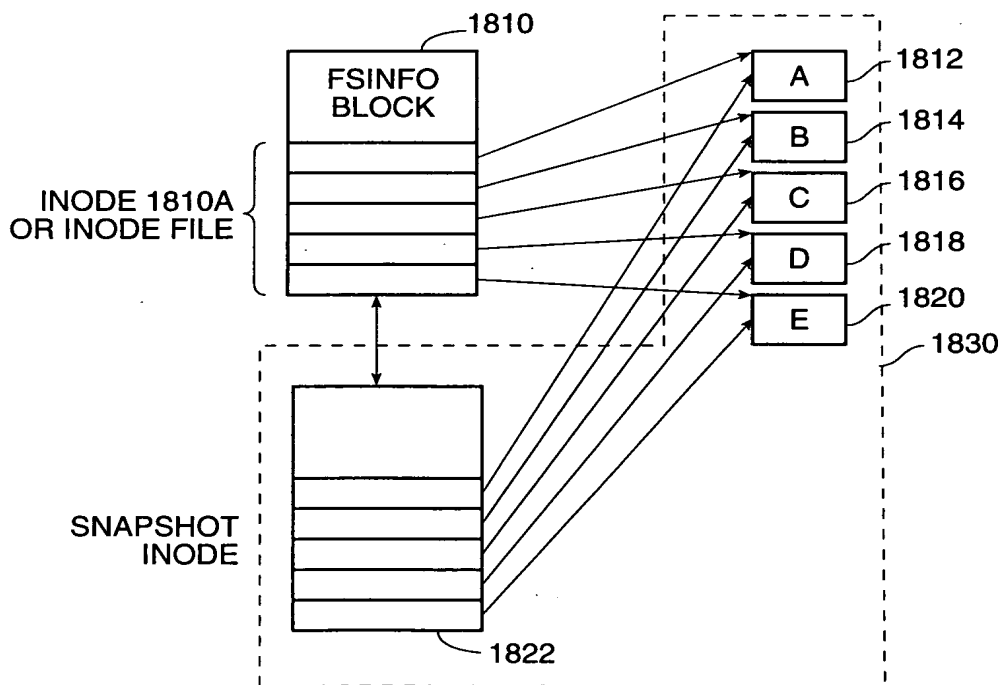


FIG. 18B

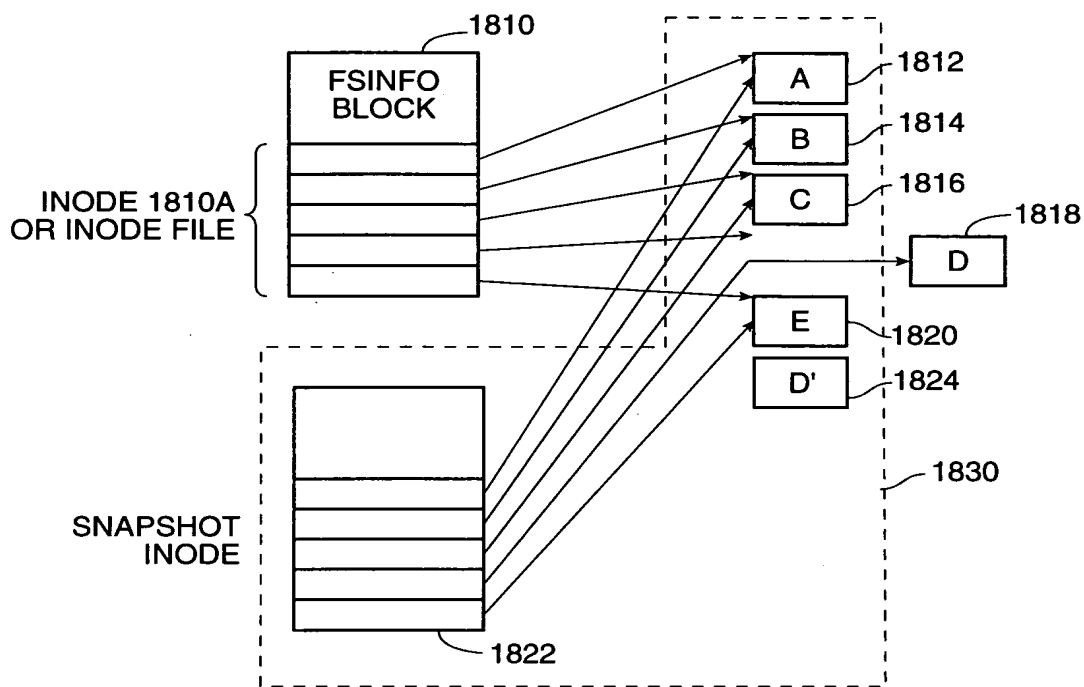


FIG. 18C

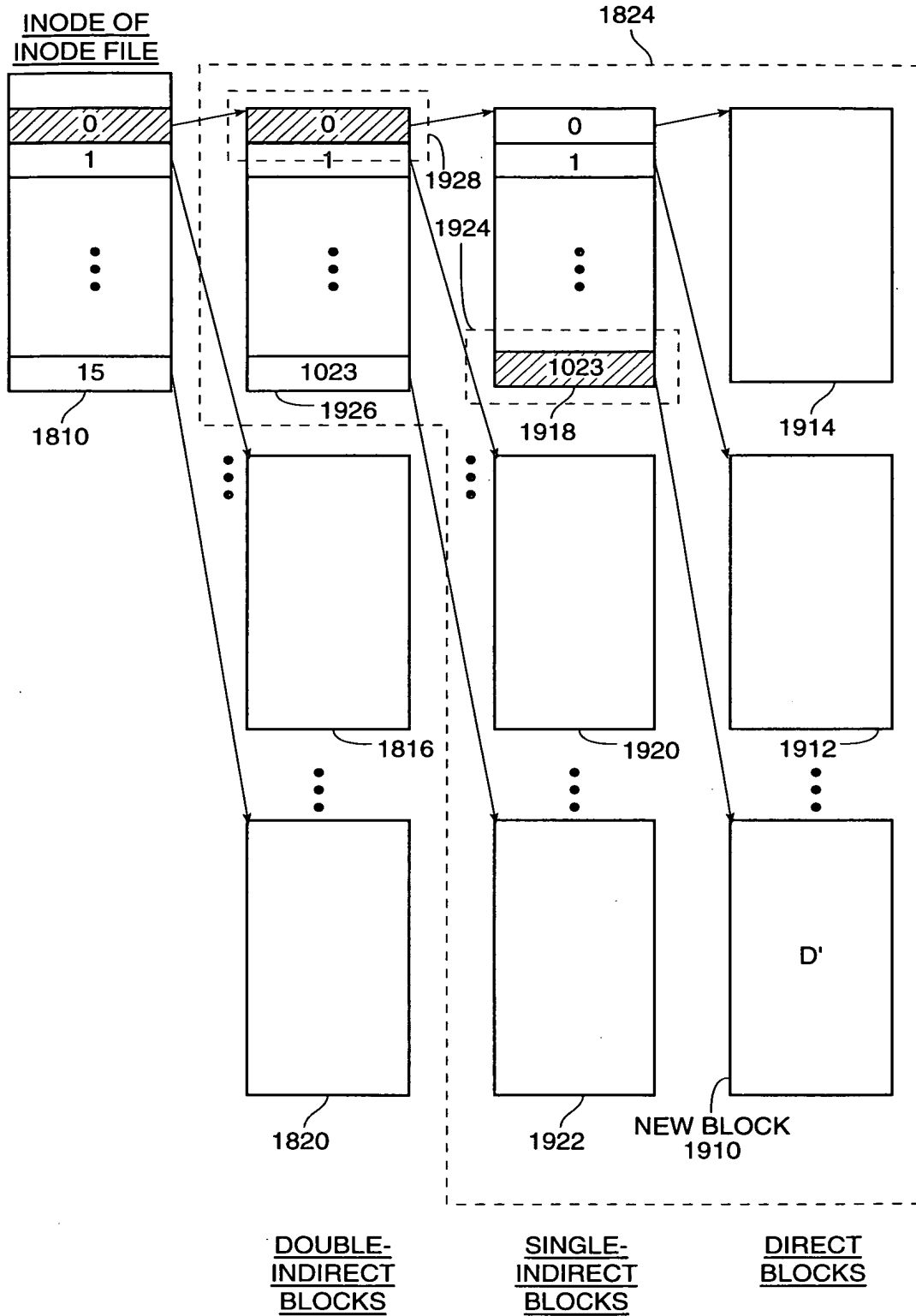


FIG. 19

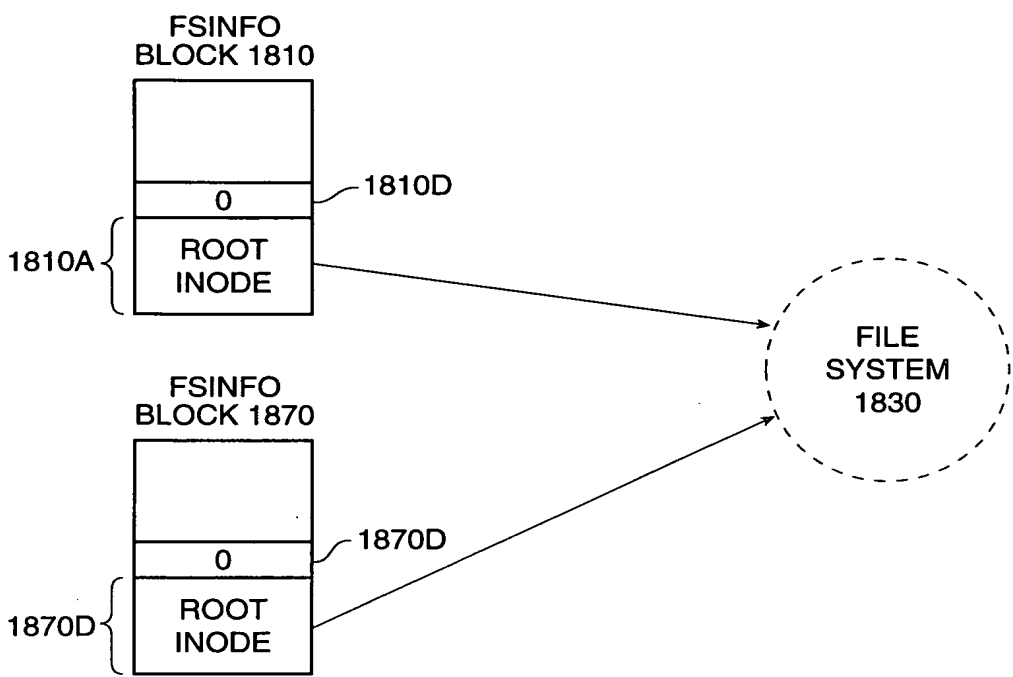


FIG. 20A

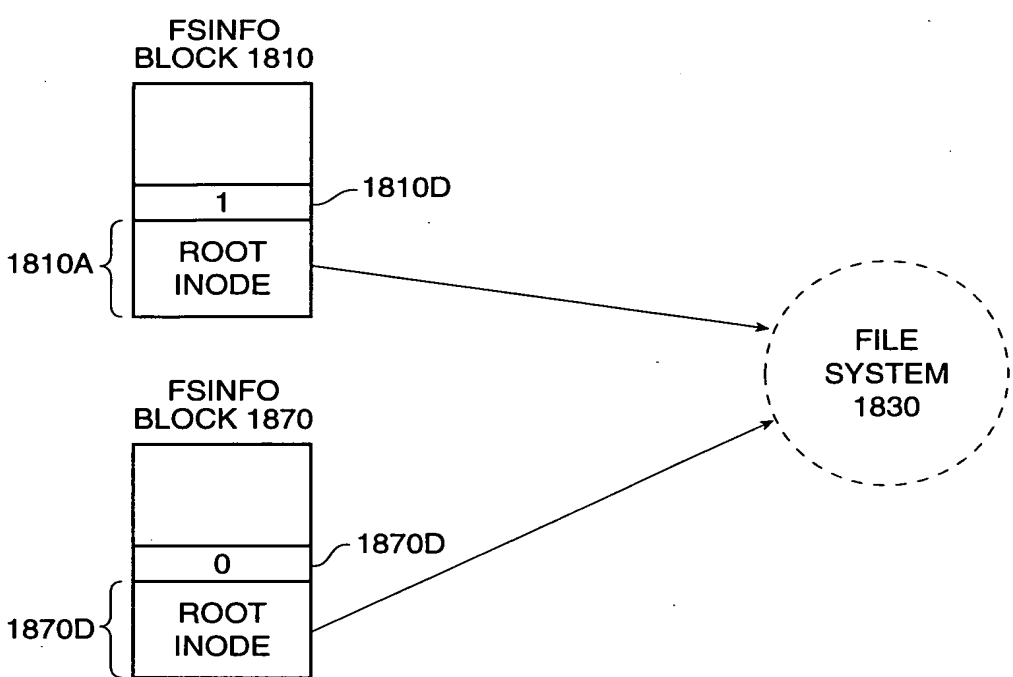


FIG. 20B

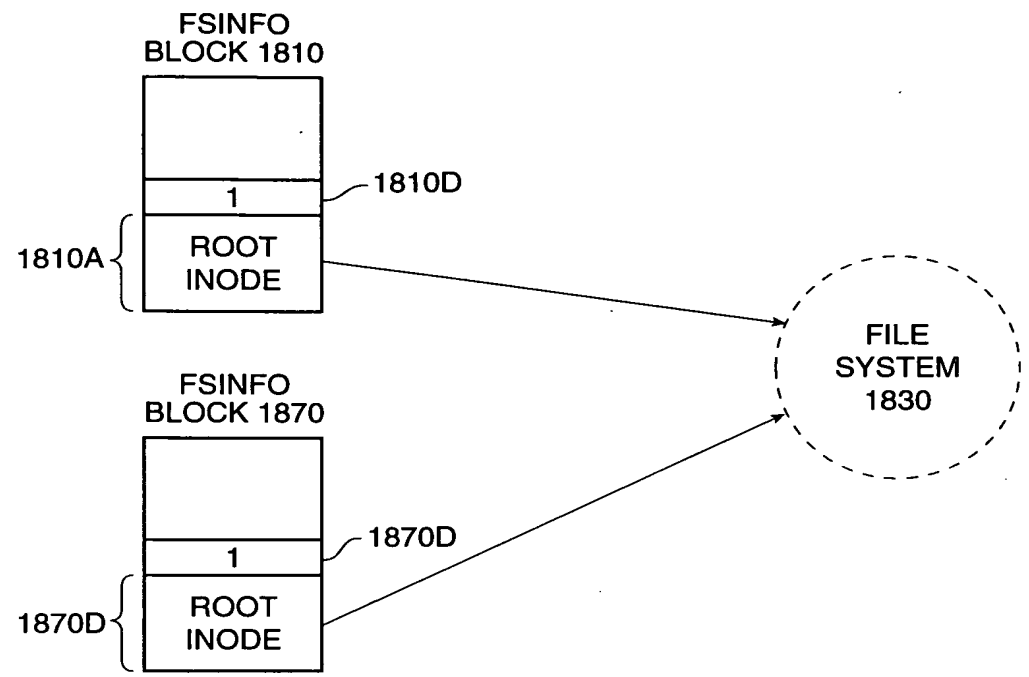


FIG. 20C

SNAPSHOT 2 BIT

| BLOCK # | BIT 31<br>(CP-BIT) |     | BIT 2 | BIT 1 | BIT 0<br>(FS-BIT) |       |
|---------|--------------------|-----|-------|-------|-------------------|-------|
| 2304 ←  | 1                  | ... | 1     | 1     | 1                 | 2326A |
| 2306 ←  | 0                  | ... | 0     | 1     | 0                 | 2326B |
| 2308 ←  | 1                  | ... | 1     | 0     | 1                 | 2326C |
| 2310 ←  | 1                  | ... | 1     | 1     | 1                 | 2326D |
| 2312 ←  | 1                  | ... | 1     | 1     | 1                 | 2326E |
| 2314 ←  | 0                  | ... | 0     | 1     | 0                 | 2326F |
| 2316 ←  | 1                  | ... | 1     | 1     | 1                 | 2326G |
| 2318 ←  | 1                  | ... | 1     | 1     | 1                 | 2326H |
| 2320 ←  | 0                  | ... | 0     | 1     | 0                 | 2326I |
| 2322 ←  | 1                  | ... | 1     | 0     | 1                 | 2326J |
| 2324 ←  | 0                  | ... | 0     | 1     | 0                 | 2326K |
| 2326 ←  | 1                  | ... | 1     | 0     | 1                 | 2326L |
| 2328 ←  |                    | ... |       |       |                   |       |
|         |                    | ... |       |       |                   |       |

4 KB BLOCK 2326

FIG. 21E

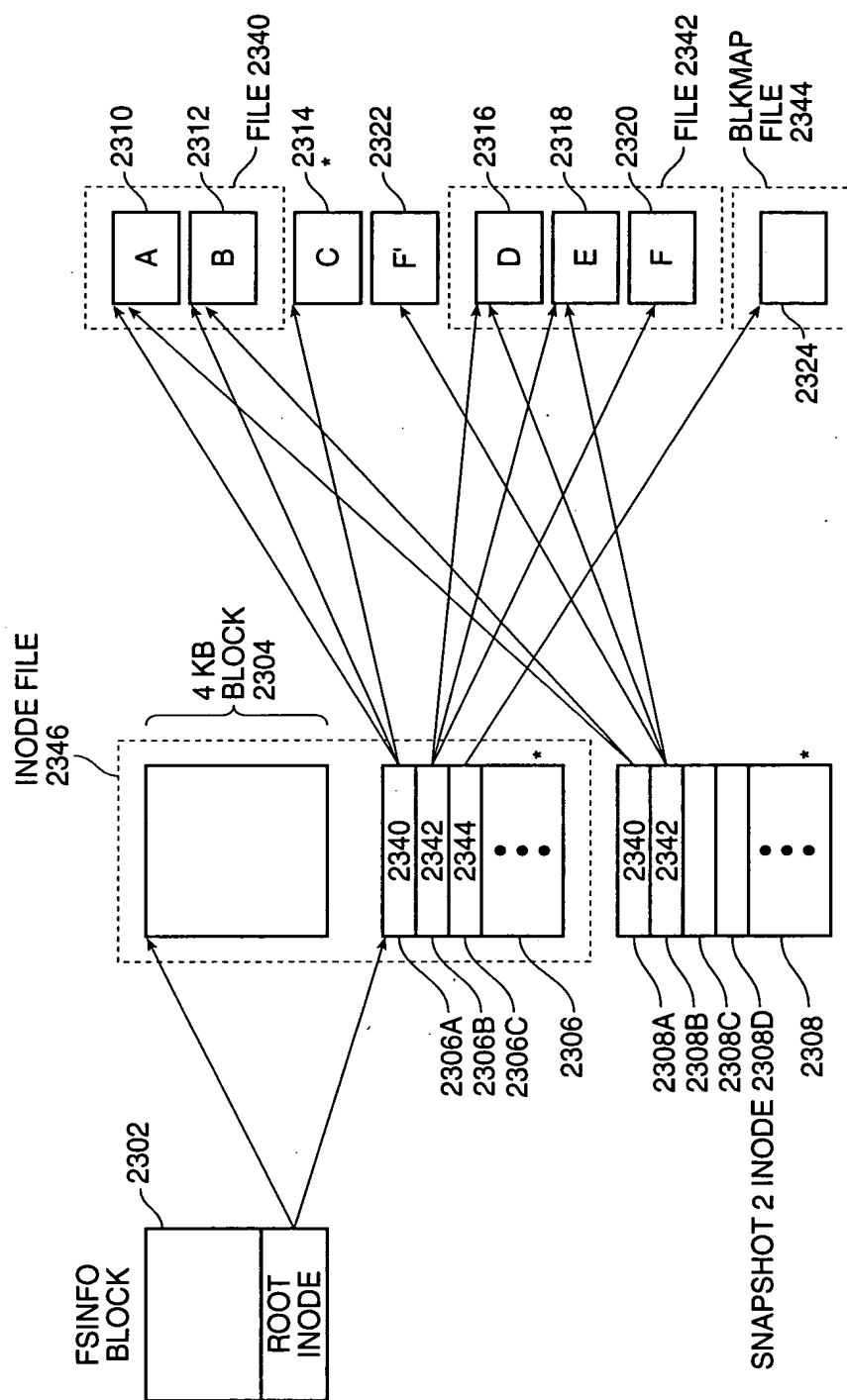


FIG. 21A



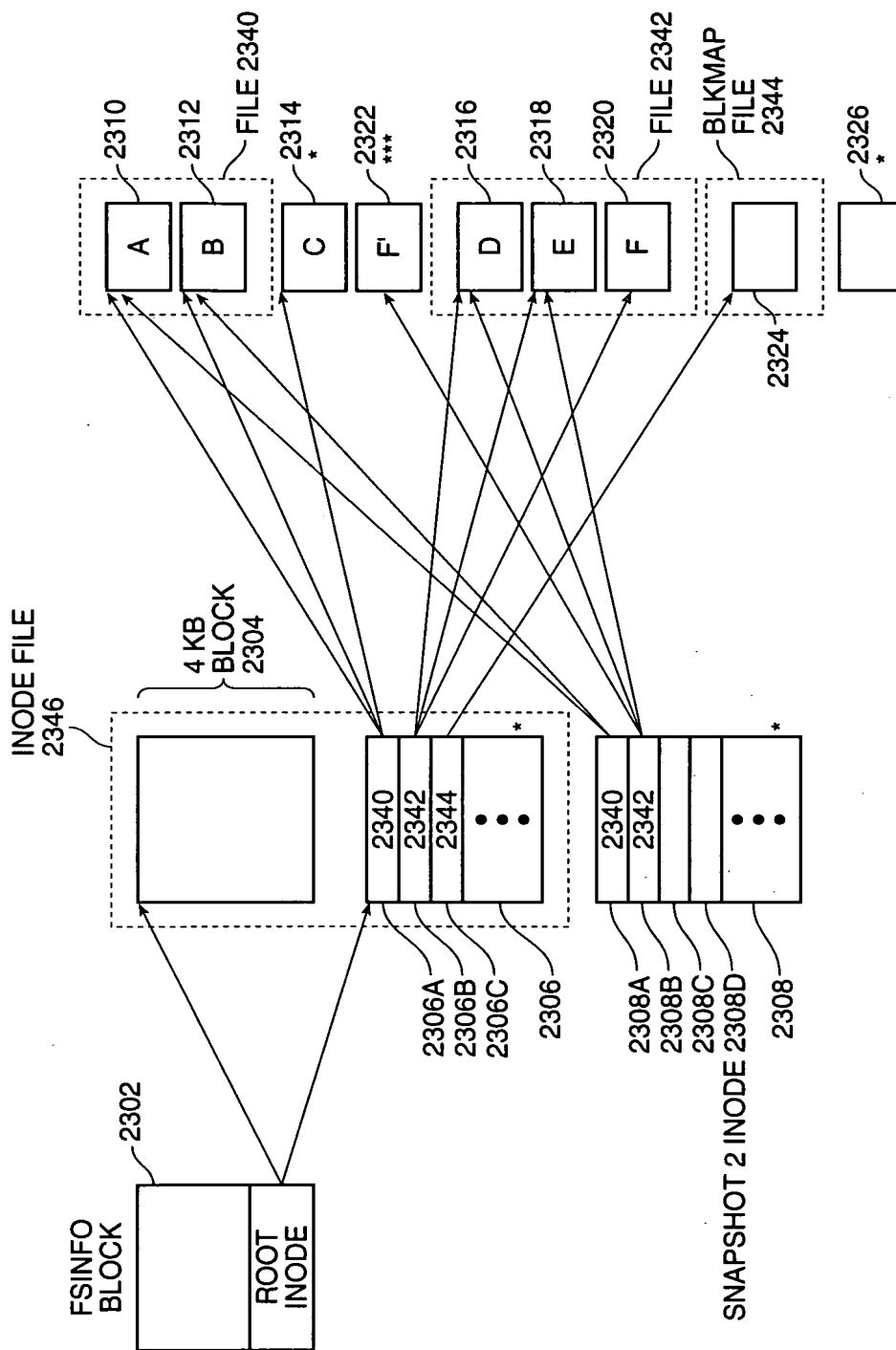


FIG. 21B

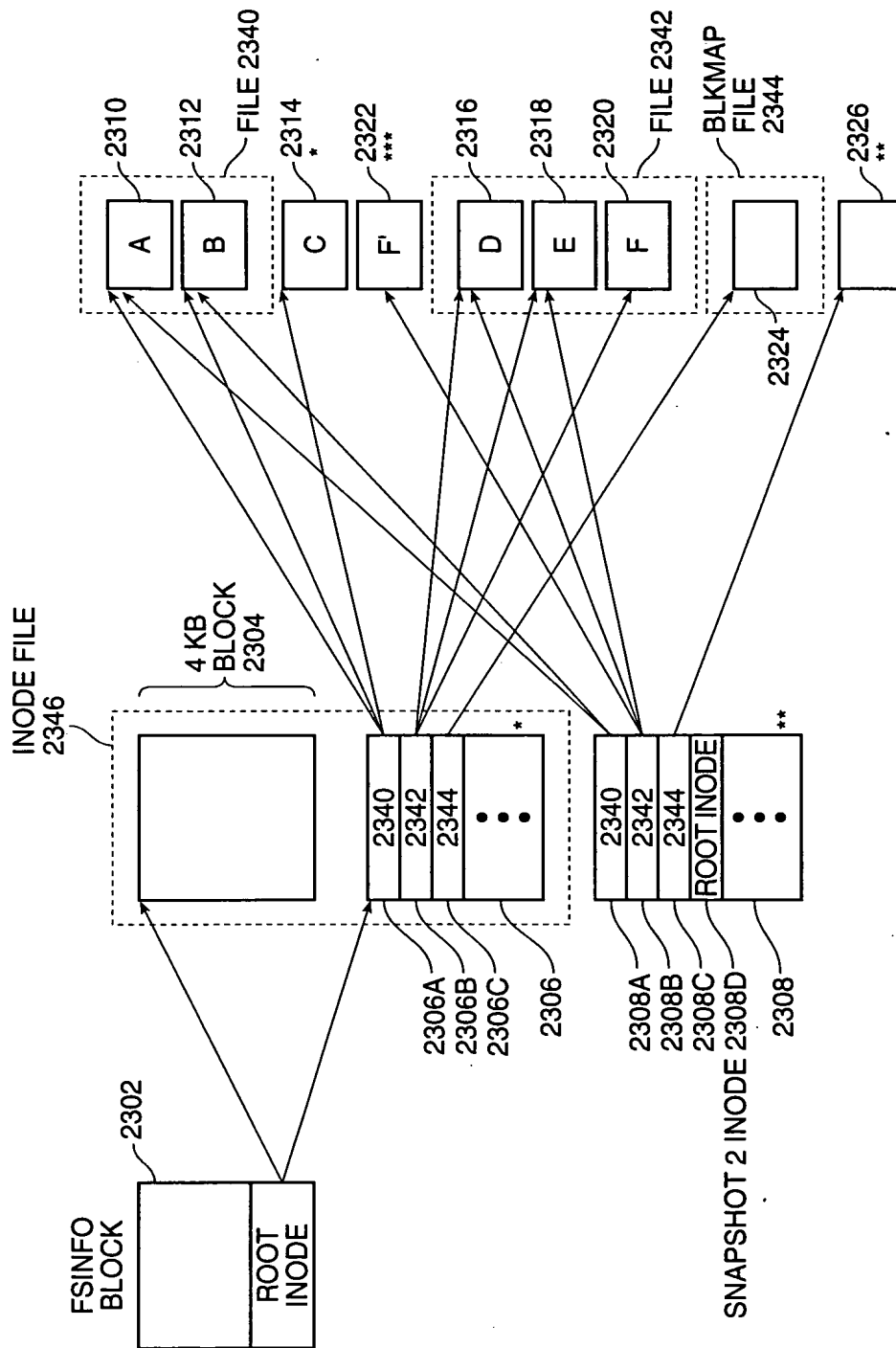


FIG. 21C

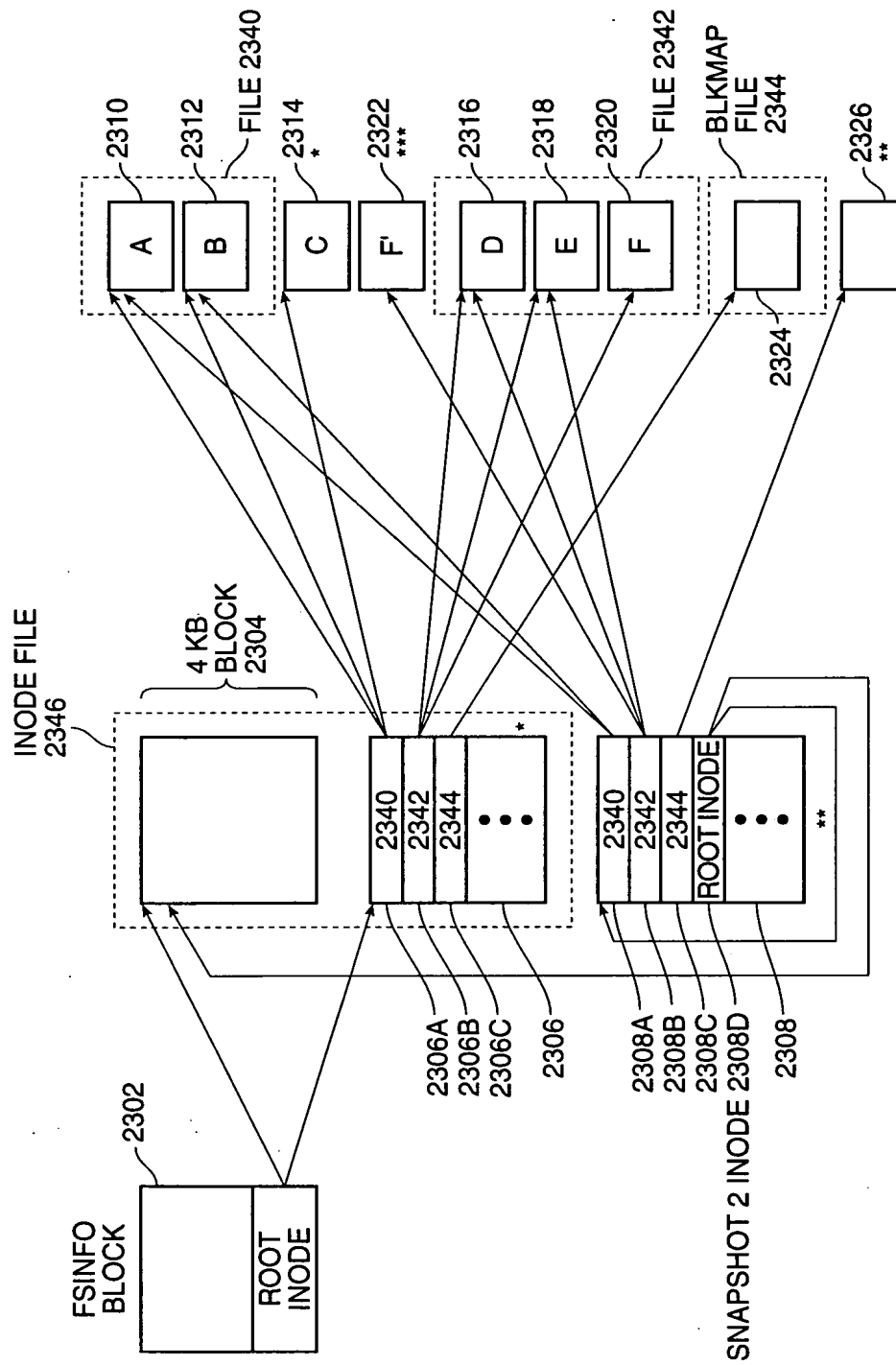


FIG. 21D

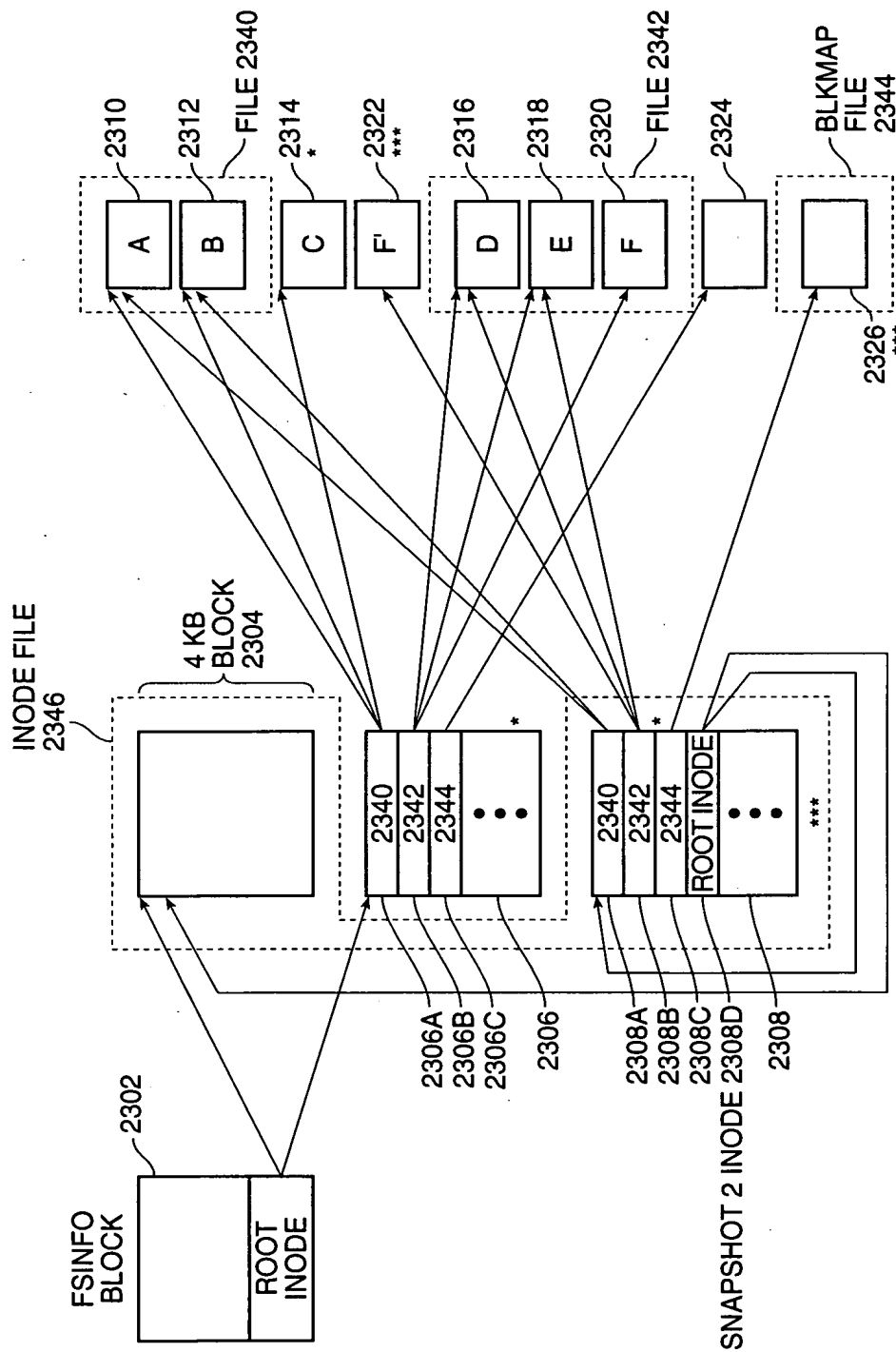


FIG. 21F

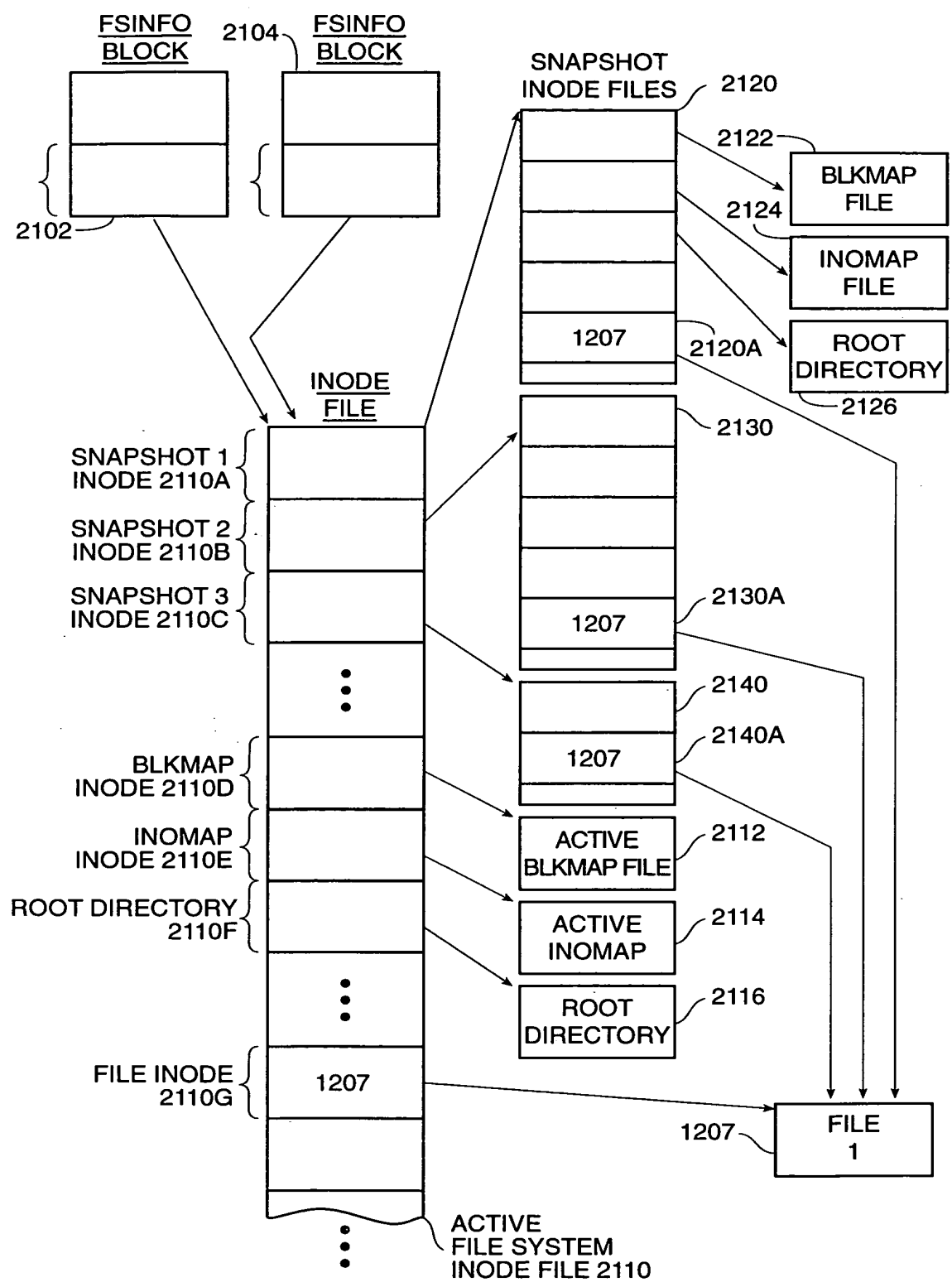


FIG. 22

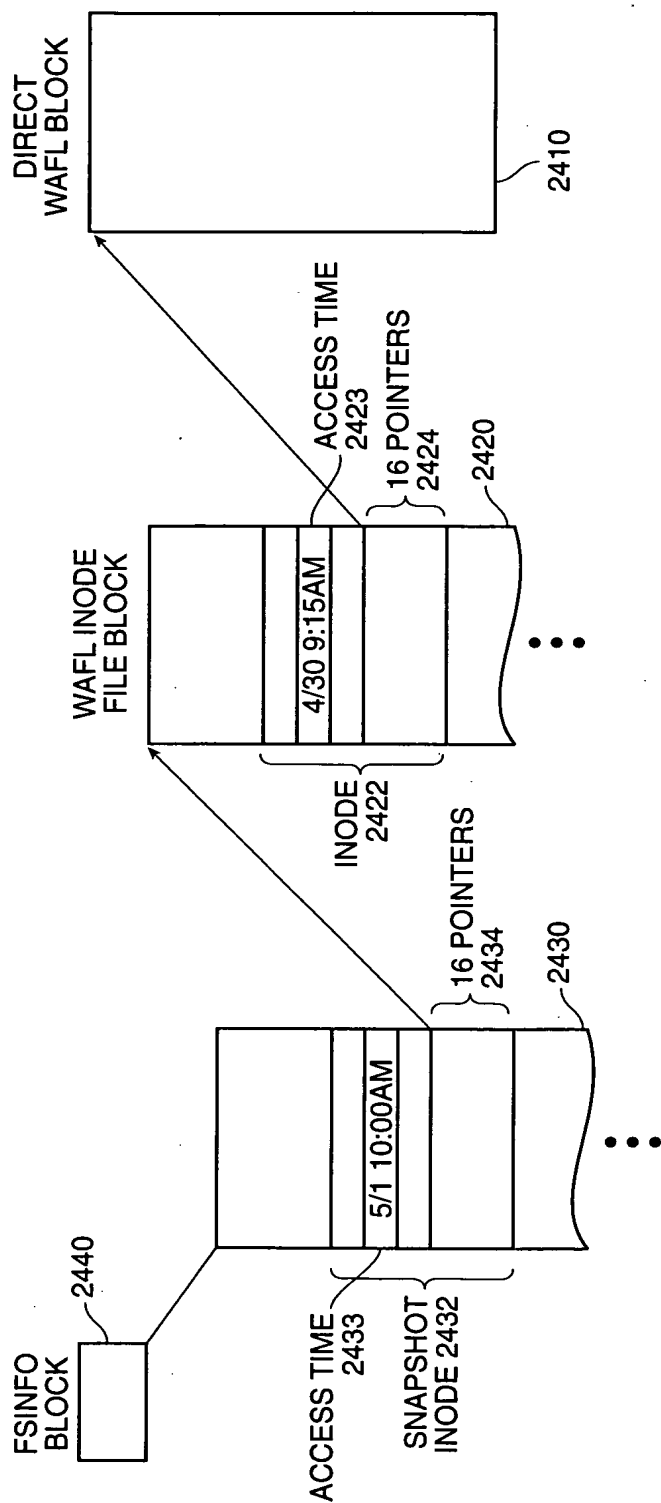


FIG. 23A

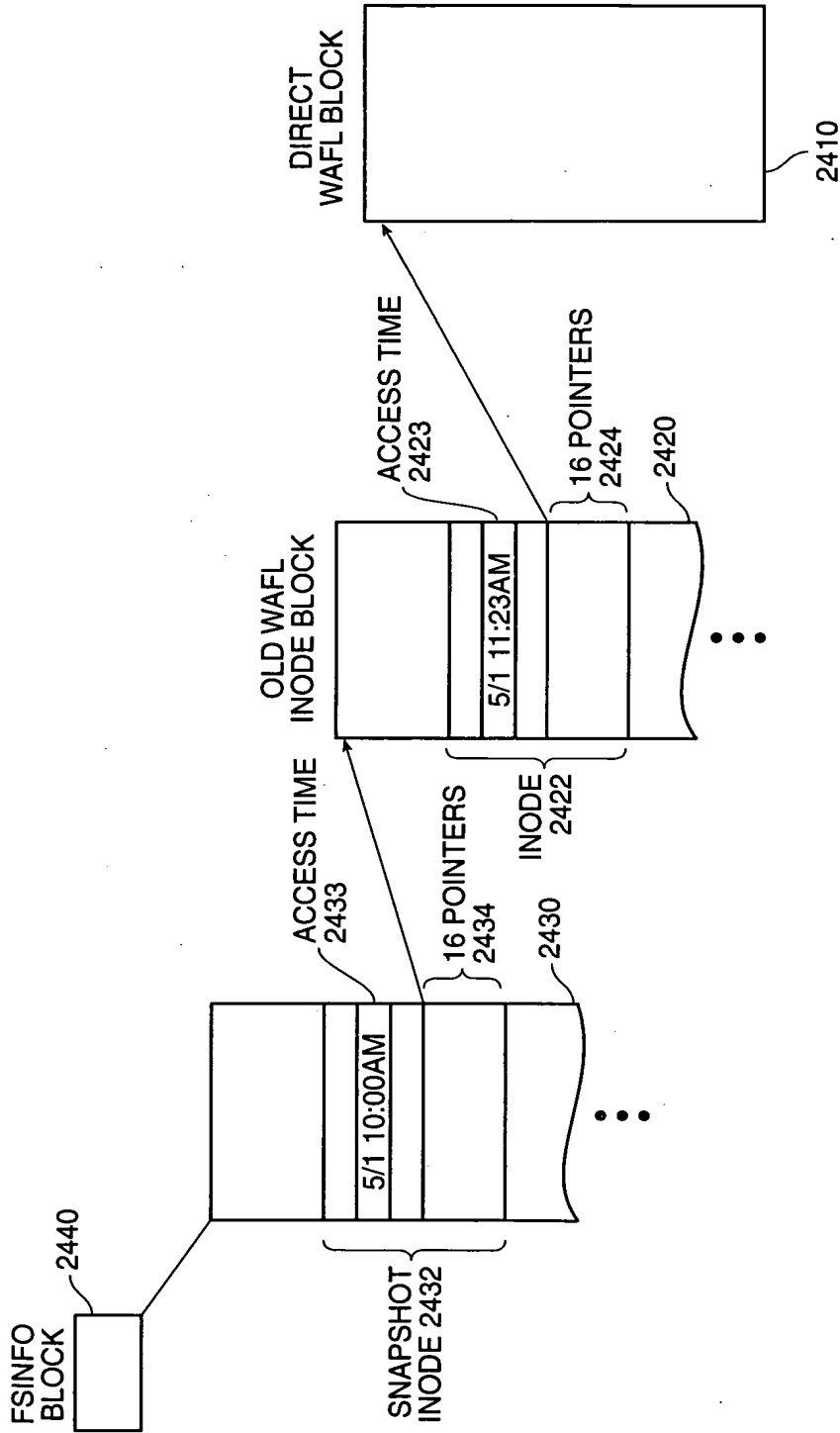


FIG. 23B